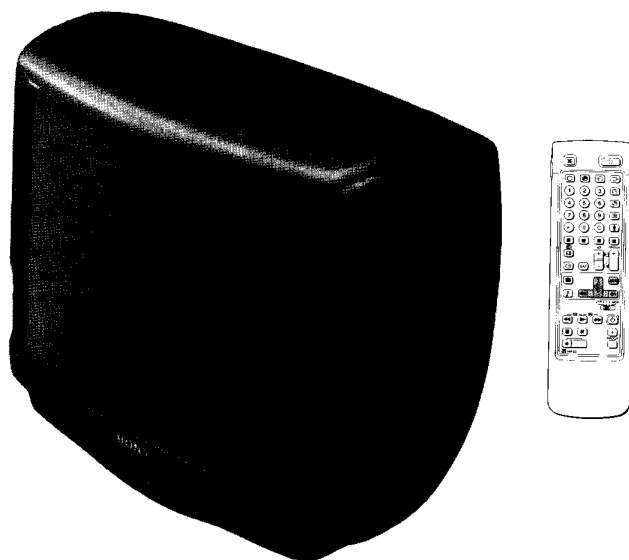


SERVICE MANUAL

AE-2B CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-B2921A	RM-831	Italian	SCC-G59E-A	KV-B2923E	RM-831	Spanish	SCC-G56E-A
KV-B2921B	RM-831	French	SCC-G57E-A	KV-B2921K	RM-831	OIRT	SCC-G73C-A
KV-B2921D	RM-831	AEP	SCC-G45G-A				



MC-Service

TRINITRON® COLOR TV
SONY®

ITEM	MODEL	Television System	Stereo System	Channel Coverage	Color System
Italian		B/G/H, D/K	GERMAN Stereo	ITALIA VHF:A-H2 (C) UHF: 21-69 PAL B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
French		B/G/H, D/K L, I	GERMAN Stereo	L VHF:F02-F10 UHF:F21-F60 CABLE:B-Q B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) UHF:21-69 I UHF:B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
AEP		B/G/H, D/K	GERMAN Stereo	PAL B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) UHF:21-69 D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
Spanish		B/G/H, D/K	GERMAN/NICAM Stereo	PAL B/G VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) UHF:21-69 D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
OIRT		B/G/H, D/K	GERMAN Stereo	B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)

MODEL	Italian	French	AEP	Spanish	OIRT
Power Consumption	117W	121W	116Wh	117Wh	116Wh

SPECIFICATIONS

Picture Tube Super Trinitron
Approx. 72 cm (29 inches)
(Approx. 68 cm picture measured diagonally)
110° -deflection

Input/Output Terminals

[REAR]

- Ⓔ 1 21-pin Euro connector (CENELEC standard)
 - inputs for audio and video signals
 - inputs for RGB
 - outputs of TV video and audio signals
- Ⓔ 2/Ⓔ 2 21-pin Euro connector
 - inputs for audio and video signals
 - inputs for S video
 - outputs for audio and video signals (selectable)
- Ⓔ Audio outputs (variable) - phono jacks

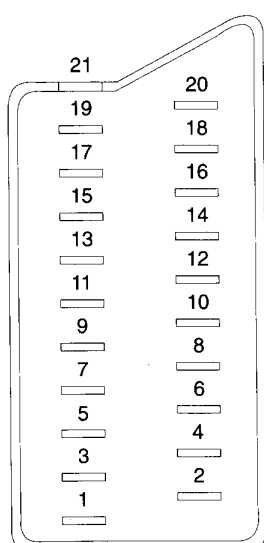
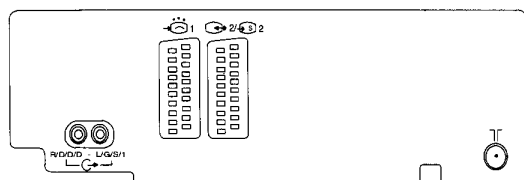
[FRONT]

- Ⓔ 3 Video input - phono jack
- Ⓔ Audio inputs - phono jacks
- Ⓔ 3 S video input 4-pin DIN
- Ω Headphone jacks : stereo minijack
- Sound output 2 x 12W (RMS)
2 x 30W (Music)
- Power requirements 220 - 240V
- Dimensions(WxHxD) Approx. 607x666x830 mm
- Weight Approx. 48.5kg
- Supplied accessories RM-831 Remote Commander (1)
IEC designation R6 battery (1)
- Other features NICAM , FASTEXT.
- [RM-831]
- Remote control system infrared control
- Power requirements 1.5V dc
1 battery IEC designation R6 (size AA)
- Dimensions Approx. 65x225x21 mm (w/h/d)
- Weight Approx. 157g (Not including batteries)

Design and specifications are subject to change without notice

Model name Item	KV-B2921A	KV-B2921B	KV-B2921D	KV-B2923E	KV-B2921K
Pal Comb	OFF	OFF	OFF	OFF	OFF
PIP	OFF	OFF	OFF	OFF	OFF
RGB Priority	ON	ON	OFF	OFF	OFF
Woofer Box	OFF	OFF	OFF	OFF	OFF
Scart 1	ON	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON	ON
Front in (3)	ON	ON	ON	ON	ON
Scart 4	OFF	OFF	OFF	OFF	OFF
Dyn. Convergence	OFF	OFF	OFF	OFF	OFF
Projector	OFF	OFF	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON	ON	ON
Norm B/G	ON	ON	ON	ON	ON
Norm I	OFF	ON	OFF	OFF	OFF
Norm D/K	ON	ON	ON	ON	ON
Norm AUS	OFF	OFF	OFF	OFF	OFF
Norm L	OFF	ON	OFF	OFF	OFF
Norm SAT	OFF	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF	OFF
Language Preset	Italiano	Francais	Deutsch	None	OIRT

21 pin connector (1 2 / 4)



Pin No.	1	2	4	Signal	Signal level
1	○	○	○	Audio output B (right)	Standard level : 0.5V rms Output impedance : Less than 1kohm*
2	○	○	○	Audio input B (right)	Standard level : 0.5V rms Output impedance : More than 10kohm*
3	○	○	○	Audio output A (left)	Standard level : 0.5V rms Output impedance : Less than 1kohm*
4	○	○	○	Ground (audio)	
5	○	○	○	Ground (blue)	
6	○	○	○	Audio input A (left)	Standard level : 0.5V rms Output impedance : More than 10kohm*
7	○	●	●	Blue input	0.7 ± 3dB, 75 ohms, positive
8	○	○	○	Function select (AV control)	High state (9.5 - 12V) : Part mode Low state (0 - 2V) : TV mode Input impedance : More than 10k ohms Input capacitance : Less than 2nF
9	○	○	○	Ground (green)	
10	○	○	○	Open	
11	○	●	●	Green	Green signal : 0.7 ± 3dB, 75 ohms, positive
12	○	○	○	Open	
13	○	○	○	Ground (red)	
14	○	○	○	Ground (blanking)	
15	○	—	—	Red input	0.7 ± 3dB, 75 ohms, positive
	—	○	○	(S signal) chroma input	0.3 ± 3dB, 75 ohms, positive
16	○	●	●	Blanking input (Ys signal)	High state (1 - 3V) Low state (0 - 0.4V) Input impedance : 75ohms
17	○	○	○	Ground (video output)	
18	○	○	○	Ground (video input)	
19	○	○	○	Video output	1V ± 3dB, 75ohms, positive sync: 0.3V(-3+10dB)
	○	—	—	Video input	1V ± 3dB, 75ohms, positive sync: 0.3V(-3+10dB)
20	—	○	○	Video input Y (S signal)	1V ± 3dB, 75ohms, positive sync: 0.3V(-3+10dB)
21	○	○	○	Common ground (plug, shield)	

○ Connected ● Not Connected (open) * at 20Hz - 20kHz

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75 ohm , positive Sync. 0.3V -3/+10 dB
4	C (S signal) input	0.3V ± 3dB 75 ohm , positive Sync.

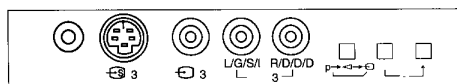


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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP.

WARNING !!

AN ISOLATING TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD, DUE TO A LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLIMENTS PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ !!

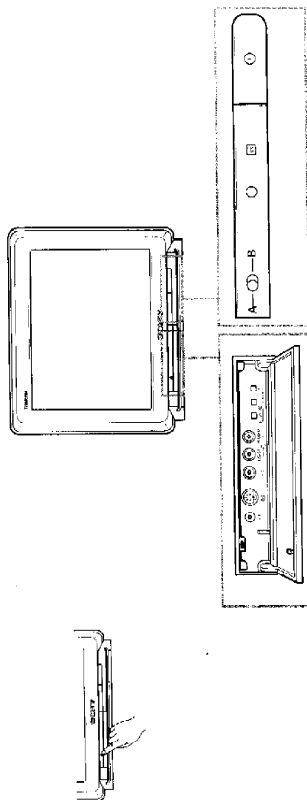
LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE  SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÈCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 GENERAL

Overview

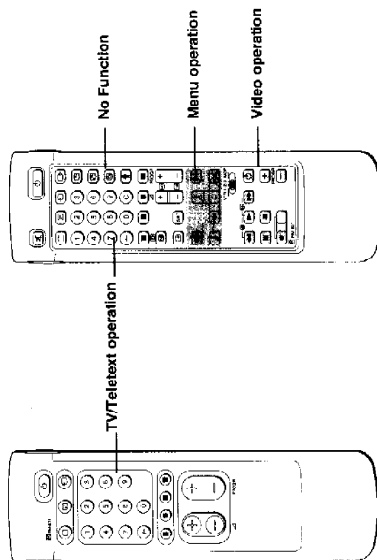
This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.

TV set - front



Symbol	Name	Refer to page
	Main power switch	13
	Standby indicator	13
	Stereo A/B indicators	15
	Headphones jack	20
	Input jacks (S-video/video/audio)	20
	Function selector (Programme/volume/input)	13
	Adjustment buttons for function selector	13

Remote Commander RM-831



Note
The SAT button does not operate with this TV.

Simple side

Full-Function side

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

TV/Teletext operation

Symbol	Name	Refer to Page
	Mute on/off button	14
	Standby button	13
	TV power on/TV mode selector button	13
	Teletext button	14
	Input mode selector	14
	Output mode selector	21
	Number buttons	13
	Double-digit entering button	13
	Direct channel entering button	10
	Volume control button	13
	PROGR +/- Programme selectors	13
	Teletext page access buttons	17
	Picture adjustment button	15
	Sound adjustment button	15
	On-screen display button	14
	Teletext hold button	17
	Time display button	14
	Fasttext buttons	17

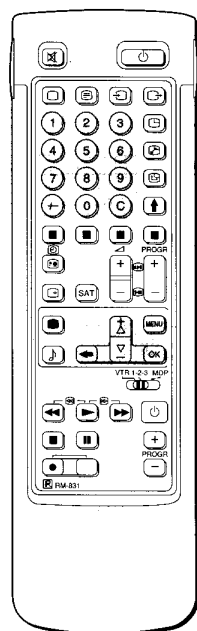
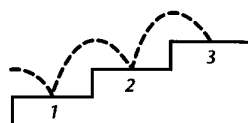
Menu operation

Symbol	Name	Refer to Page
	MENU	7
	Menu on / off button	7
	Select buttons	7
	OK (confirming) button	7
	Back button	7

Video operation

Symbol	Name	Refer to Page
	VTR1/2/3	22
	MDP	22
	Video equipment selector buttons	22

Step 3 Tuning in to TV Stations



To go back to main menu:
Keep pressing **←**.

To go back to the normal TV picture:
Press **MENU**. Normal TV picture will be restored after one minute if menu functions are not selected.

Note on the Demo function:
If you choose Demo on the main menu, you can see a sequential demonstration of the menu functions. Press **MENU** to stop the function.

Once you have set up the TV, you can choose the language of the menu. Then you should preset the channels (up to 60 channels) by choosing either the automatic or manual method.

The automatic method is easier if you want to preset all receivable channels at once. Use the manual method if you only have a few channels and want to preset channels one by one. The manual method is also convenient for allocating programme numbers to various video input sources.

Before you begin

- Check that the Full-Function side of the Remote Commander is visible.
- Locate Menu operation buttons on the Remote Commander. They are shaded in the illustration at the left.

1 Choose a language

- 1 Depress **⏻** on the TV.
The TV will switch on. If the standby indicator on the TV is lit, press **□** or a number button on the Remote Commander.
- 2 Press the **MENU** button.
The **LANGUAGE** menu appears. (See Fig. 1)
- 3 Select the language you want with **△+ / ▽-**, and then press **OK**.



Fig. 1.

2 Display the Menu

Press the **←** button.
The main menu appears. (See Fig. 2)

Now, choose one of the methods described overleaf:

"Preset Channels Automatically"

or

"Preset Channels Manually".

It is recommended to choose

"Preset Channels Automatically".

Then the channels are automatically stored as follows;

Programme 1	—	BBC1
Programme 2	—	BBC2
Programme 3	—	ITV
Programme 4	—	CH4 or S4C



Fig. 2.

With this method, you can preset all receivable channels at once.

To stop automatic channel presetting:
Press $\leftarrow$ on the Remote Commander.

Notes:

- After presetting the channels automatically, you can check which channels are stored on which programme positions. For details, see "Using the Programme Table" on page 16.

- You can sort the programme positions to have them appear on screen in the order you like. For details, see "Sorting Programme Positions" on page 10.

- Programme names are automatically taken from Teletext if available. If not please refer to page 11 "Captioning a station name" for further information.

3 Preset channels automatically

- 1 Select **Preset** with $\Delta+$ or $\nabla-$ and press OK.
The **PRESET** menu appears. (See Fig. 3.)
- 2 Select **Auto Programme** with $\Delta+$ or $\nabla-$ and press OK.
The **AUTO PROGRAMME** menu appears. (See Fig. 4.)
- 3 Press OK repeatedly until the first element of the "PROG" number is highlighted.
- 4 Select the programme (number button) from which you want to start presetting. Select the first element of the double-digit number with $\Delta+$ or $\nabla-$ or the number buttons (e.g. For "04", select "0" here) and press OK.
The second element of "PROG" will be highlighted.
- 5 Select the second element of the double-digit number with $\Delta+$ or $\nabla-$ or the number buttons (e.g. For "04", select "4" here) (See Fig. 5.) and press OK.
- 6 The automatic channel presetting starts.
When presetting is finished, the preset menu reappears. All available channels are now stored on successive number buttons. (Press MENU to restore normal TV picture).

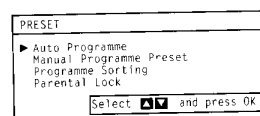


Fig. 3.

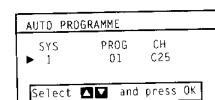


Fig. 4.



Fig. 5.

Use this method if there are only a few channels in your area to preset or if you want to preset channels one by one. You may also allocate programme numbers to various video input sources.

If you have made a mistake:
Press $\leftarrow$ to go back to the previous position.
To go back to main menu
Keep pressing $\leftarrow$.
To go back to the normal TV picture
Press MENU.

3 Preset channels manually

- 1 Select **Preset** with $\Delta+$ or $\nabla-$ and press OK.
The **PRESET** menu appears. (See Fig. 6.)
- 2 Select **Manual Programme Preset** with $\Delta+$ or $\nabla-$ and press OK.
The **MANUAL PROGRAMME PRESET** menu appears. (See Fig. 7.)

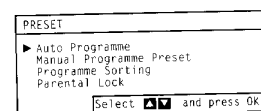


Fig. 6.

PROG	SYS	CH	SEARCH	LABEL	AFT
1	1	C21	(off)	-----	(on)
2	1	C34	(off)	-----	(on)
3	1	C33	(off)	-----	(on)
4	1	C45	(off)	-----	(on)
5	1	C35	(off)	-----	(on)
6	1	C44	(off)	-----	(on)
7	1	C54	(off)	-----	(on)
8	1	C30	(off)	-----	(on)
9	1	C36	(off)	-----	(on)
10	1	C59	(off)	-----	(on)

Select [left/right] and press OK

Fig. 7.

To tune in a channel by frequency:
After selecting F in step 6, enter three digits using the number buttons. Press OK.

Please refer to "Television Channel Number Guide" on page 24.

If you have made a mistake:
Press $\leftarrow$ to go back to the previous position.
To go back to main menu
Keep pressing $\leftarrow$.
To go back to the normal TV picture
Press MENU.

- 3 Using $\Delta+$ or $\nabla-$, select the programme position (number button) to which you want to preset a channel, and press OK.
- 4 Keep pressing $\nabla-$ to select programme numbers higher than 10.
- 5 Select, if necessary, a video input source (EXT) with $\Delta+$ or $\nabla-$. Then press OK. The first element of the CH position will be highlighted. (See Fig. 8.)
- 6 Using $\Delta+$ or $\nabla-$, select C (to preset a regular channel), or F (to tune in by frequency) and press OK. The first element of the "CH" number will be highlighted. If you have selected EXT in step 5, select the video input source with $\Delta+$ or $\nabla-$. (See Fig. 9.)

There are two ways to preset channels. If you know the channel number, go to step "7- Manual",

or

if you don't know the channel number, go to step "7- Search".

7 Manual

- a Select the first element of the "CH" number with $\Delta+$ / $\nabla-$ or the number buttons and press OK. The second element of the "CH" number will be highlighted.
- b Select the second element of the number with $\Delta+$ / $\nabla-$ or the number buttons. The selected number appears. (See Fig. 10.)
- c Press OK. The "SEARCH" position is highlighted and the selected channel is now stored. (See Fig. 11.)
- d Press OK until the cursor appears by the next programme position.
- e Repeat steps 3 to 7 to preset other channels.

7 Search

- a Press OK repeatedly until the colour of the SEARCH position changes.
- b Start searching for the channel with $\Delta+$ (up) or $\nabla-$ (down). The CH position changes colour. (See Fig. 12.) The CH number starts counting up or downwards. When a channel is found, it stops. (See Fig. 13.)
- c Press OK if you want to store this channel. If not, press $\Delta+$ or $\nabla-$ to continue channel searching.
- d Press OK until the cursor appears by the next programme position.
- e Repeat steps 3 to 7 to preset other channels.



Fig. 8.

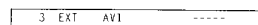


Fig. 9.



Fig. 10.

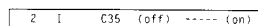


Fig. 11.

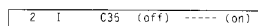


Fig. 12.

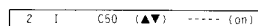
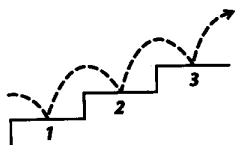


Fig. 13.

Additional Presetting Functions

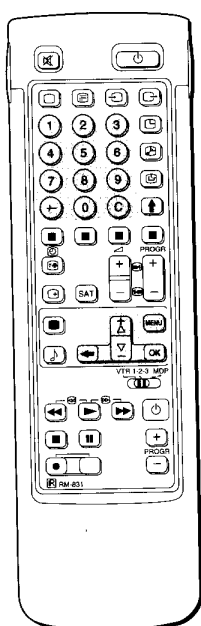


This section shows you additional presetting functions such as sorting or skipping programme positions, captioning a station name, manual fine-tuning, and using the parental lock.

Before you begin

- Check that the Full Function side of the Remote Commander is visible
- Locate the Menu operation buttons.

PROGRAMME SORTING



For higher programme positions:
The display scrolls automatically.

If you have made a mistake:
Press to go back to the previous position.

To go back to main menu:
Keep pressing .

To go back to the normal TV picture:
Press MENU.

Sorting Programme Positions

With this function, you can sort the programme positions to a preferable order.

- 1 Press MENU to display the main menu.
- 2 Select Preset with or and press OK. The PRESET menu appears.
- 3 Select Programme Sorting with or and press OK. The PROGRAMME SORTING menu appears. (See Fig. 14.)
- 4 Using or , select the programme position you want to move to another programme position and press OK. The colour of the selected position changes. (See Fig. 15.)
- 5 Using or , select the programme position to which you want to move the selected programme and press OK. Now the two programme positions have been sorted. (See Fig. 16.)
- 6 Repeat steps 4 and 5 to exchange other programme positions.

PROGRAMME SORTING					
PROG	CH	LABEL	PROG	CH	LABEL
0	AV1	VHS	8	C29	ITV
1	--	--	9	C35	C4
2	C52	BBC1	10	C02	--
3	C61	BBC2	11	C02	--
4	--	--	12	C02	--
5	VIDEO	BMM	13	C02	--
6	C02	--	14	C02	--
7	C02	--	15	C02	--

Fig. 14.

0	AV1	VHS	8	C29	ITV
---	-----	-----	---	-----	-----

Fig. 15.

PROGRAMME SORTING					
PROG	CH	LABEL	PROG	CH	LABEL
0	AV1	VHS	8	C02	--
1	--	--	9	C35	C4
2	C29	ITV	10	C02	--
3	C52	BBC1	11	C02	--
4	C61	BBC2	12	C02	--
5	--	--	13	C02	--
6	VIDEO	BMM	14	C02	--
7	C02	--	15	C02	--

Fig. 16.

Tuning in a Channel Temporarily

You can tune in a channel temporarily, even when it has not been preset. Use the buttons on the Full-Function side of the Remote Commander.

- 1 Press C on the Remote Commander. The indication "C" appears on the screen.
- 2 Enter the double-digit channel number using the number buttons (e.g. for channel 4, first press 0, then 4). The channel appears. However, the channel will not be stored.



MANUAL PROGRAMME PRESET

Skipping Programme Positions

You can skip unused programme positions when selecting programmes with the **PROGR +/-** buttons. However, the skipped programmes may still be called up when you use the number buttons.

- 1 Press **MENU** to display the main menu.
- 2 Select **Preset** with Δ + or ∇ - and press **OK**.
The **PRESET** menu appears.
- 3 Select **Manual Programme Preset** with Δ + or ∇ - and press **OK**.
The **MANUAL PROGRAMME PRESET** menu appears. (See Fig. 17.)
- 4 Using Δ + or ∇ -, select the programme position which you want to skip and press **OK**.
The "SYSTEM" position changes colour.
- 5 Press Δ + or ∇ - until --- appears in the **SYSTEM** position. (See Fig. 18.)
- 6 Press **OK**. (See Fig. 19.)
When you select programmes using the **PROGR +/-** buttons, the programme position will be skipped.
- 7 Repeat steps 4 to 6 to skip other programme positions.



MANUAL PROGRAMME PRESET				
PROG	SYS	CH	SEARCH	LABEL AFT
1	I	C21	(off)	--- (on)
2	I	C24	(off)	--- (on)
3	I	C25	(off)	--- (on)
4	I	C27	(off)	--- (on)
5	I	C28	(off)	--- (on)
6	I	C22	(off)	--- (on)
7	I	C26	(off)	--- (on)
8	I	C25	(off)	--- (on)
9	I	C23	(off)	--- (on)
10	I	C29	(off)	--- (on)

Fig. 17.

3	---
---	-----

Fig. 18.

3	---
4	I

Fig. 19.

MANUAL PROGRAMME PRESET

Captioning a Station Name

Programme names are automatically taken from Teletext if available. However you can also "name" a channel or an input video source using up to five characters (letters or numbers) to be displayed on the TV screen (e.g. BBC1). Using this function, you can easily identify which channel or video source you are watching.

- 1 Press **MENU** to display the main menu.
- 2 Select **Preset** with Δ + or ∇ - and press **OK**.
The **PRESET** menu appears.
- 3 Select **Manual Programme Preset** with Δ + or ∇ - and press **OK**.
The **MANUAL PROGRAMME PRESET** menu appears. (See Fig. 20.)
- 4 Using Δ + or ∇ -, select the programme position you want to caption and press **OK** repeatedly until the first element of the **LABEL** position is highlighted.
- 5 Select a letter or number with Δ + or ∇ - and press **OK**. The next element will be highlighted.
Select other characters in the same way. If you want to leave an element blank, select - and press **OK**. (See Fig. 21.)
- 6 After selecting all the characters, press **OK** repeatedly until the cursor appears by the next programme position (at the left margin). Now the caption you chose is stored. (See Fig. 22.)
- 7 Repeat steps 5 and 6 to caption names for other channels.

If you have made a mistake:
Press $\leftarrow$ to go back to the previous position.

To go back to main menu:
Keep pressing $\leftarrow$.

To go back to the normal TV picture:
Press **MENU**.

MANUAL PROGRAMME PRESET				
PROG	SYS	CH	SEARCH	LABEL AFT
1	I	C21	(off)	--- (on)
2	I	C24	(off)	--- (on)
3	I	C25	(off)	--- (on)
4	I	C27	(off)	--- (on)
5	I	C28	(off)	--- (on)
6	I	C22	(off)	--- (on)
7	I	C26	(off)	--- (on)
8	I	C25	(off)	--- (on)
9	I	C23	(off)	--- (on)
10	I	C29	(off)	--- (on)

Fig. 20.

2	I	C25 (off)	S	---	(on)
---	---	-----------	---	-----	------

Fig. 21.

2	I	C25 (off)	SONY	---	(on)
---	---	-----------	------	-----	------

Fig. 22.

MANUAL PROGRAMME PRESET

Manual Fine-Tuning

Normally, the AFT (automatic fine-tuning) is already operating. However, if the picture is distorted, you can use the manual fine tuning function to obtain better picture reception.

- 1 Press MENU to display the main menu.
- 2 Select Preset with Δ + or ∇ - and press OK. The PRESET menu appears.
- 3 Select Manual Programme Preset with Δ + or ∇ - and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig. 23.)
- 4 Using Δ + or ∇ -, select the programme position corresponding to the channel which you want to manually fine-tune, and press OK repeatedly until the AFT position changes colour.
- 5 Fine-tune the channel with Δ + or ∇ - so that you get the best TV reception. As you press the cursor buttons, the frequency changes from -15 to +15. (See Fig. 24.)
- 6 After fine tuning, press OK. The cursor appears beside the next programme position (at the left margin). (See Fig. 25.) Now the fine-tuned level is stored.
- 7 Repeat steps 4 to 6 to fine-tune other channels.

To reactivate AFT (automatic fine tuning): Repeat from the beginning and select "ON" in step 5.

MANUAL PROGRAMME PRESET					
PROG	SYS	CH	SEARCH	LABEL	AFT
1	I	C21	(off)	----	(on)
2	I	C24	(off)	----	(on)
3	I	C25	(off)	----	(on)
4	I	C27	(off)	----	(on)
5	I	C28	(off)	----	(on)
6	I	C22	(off)	----	(on)
7	I	C26	(off)	----	(on)
8	I	C25	(off)	----	(on)
9	I	C23	(off)	----	(on)
10	I	C29	(off)	----	(on)

Fig. 23.

2	I	C35 (off)	----	(-3)
---	---	-----------	------	------

Fig. 24.

2	I	C40 (off)	----	(-3)
3	I	C45 (off)	----	(on)

Fig. 25.

PARENTAL LOCK

Parental Lock

You can prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

- 1 Press MENU to display the main menu.
- 2 Select Preset with Δ + or ∇ - and press OK. The PRESET menu appears.
- 3 Select Parental Lock with Δ + or ∇ - and press OK. The PARENTAL LOCK menu appears. (See Fig. 26.)
- 4 Using Δ + or ∇ -, select the programme position you want to block and press OK. The CH and LABEL, of the selected programme number, change colour indicating that this programme is now blocked. (See Fig. 27.)
- 5 Repeat step 4 to block other programme positions.

Cancelling blocking

- 1 On the PARENTAL LOCK menu, select the programme position you want to unblock with Δ + or ∇ -. Press OK. The CH and LABEL change to normal colour indicating that the blocking has been cancelled.

If you try to select a programme that has been blocked: The message "LOCKED" appears on the blank TV screen.

PARENTAL LOCK			
PROG	CH	LABEL	PROG CH LABEL
0	AV1	VHS	8 C38
1	C25	BBC2	9 C39
2	C42	BBC1	10 C40
3	C26	C4	11 C41
4	C34	ITV	12 C42
5	C35	---	13 C43
6	C36	---	14 C44
7	C37	---	15 C45

Fig. 26.

PROG	CH	LABEL	PROG CH LABEL
0	AV1	VHS	8 C38
1	C22	BBC2	9 C39
2	C42	BBC1	10 C40
3	C26	C4	11 C41

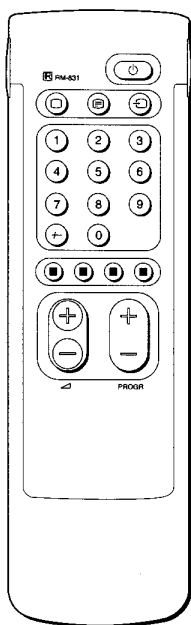
Fig. 27.

Operating Instructions

Highly sensitive to external magnetic fields

Do not place the TV in a magnetic field
or near a strong magnetic field.

Watching the TV



If no picture appears when you depress $\odot$ on the TV

and if the standby indicator on the TV is lit, the TV is in standby mode. Press $\square$ or one of the number buttons to switch it on.

This section explains the basic functions you use while watching TV. Most of the operations can be done using the simple side of the Remote Commander.

Switching the TV on and off

Switching on

Depress $\odot$ on the TV.

Switching off temporarily

Press $\odot$ on the Remote Commander.

The TV enters standby mode and the standby indicator on the front of the TV lights up.

To switch on again

Press $\square$, PROGR +/-, or one of the number buttons on the Remote Commander.

Switching off completely

Depress $\odot$ on the TV.

Selecting TV Programmes

Press PROGR +/- or press number buttons.

To select a double-digit number

Press +/- -, then the numbers.

For example, if you want to choose 23, press +/- -, 2, and 3.

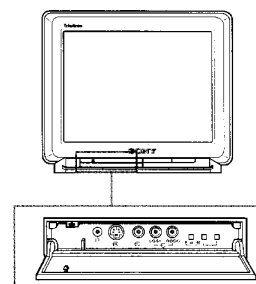
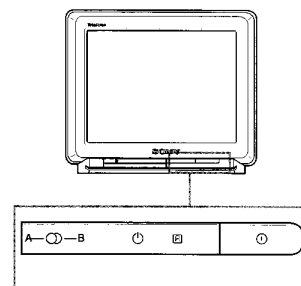
Adjusting the Volume

Press $\triangle$ +/-.

Operating the TV Using the Buttons on the TV

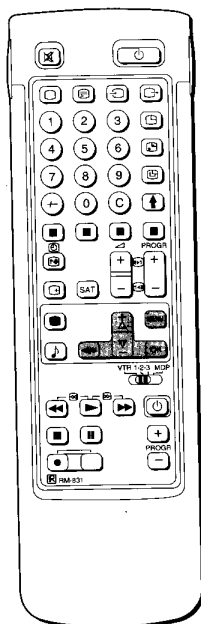
With the buttons on the TV, you can select programmes, adjust the volume, and select video input sources.

- Press $\text{P} \rightarrow \text{A} \rightarrow \text{B}$ button repeatedly until the programme number, Δ (for volume), or $\text{P} \rightarrow \text{A} \rightarrow \text{B}$ (for video input picture) appears. Then adjust with the +/- buttons.
- Press +/- buttons to switch on the TV from the standby mode.
- Press +/- simultaneously to reset picture and sound controls to the factory preset level (RESET symbol $\rightarrow \bullet \leftarrow$ is displayed).



For details of the teletext operation, refer to page 17.

For details of the video input picture, refer to page 21.



To make the Programme Table disappear
Press MENU.

Watching Teletext or Video Input

Watching teletext

- Press to view the teletext.
- Press three number buttons to select a page.
- Press one of the coloured buttons for fasttext operation.
- Press (PAGE +) or (PAGE -) for the next or preceeding page.
- To go back to the normal TV picture, press .

Watching a video input picture

Press repeatedly until the desired video input appears. To go back to the normal TV picture, press .

More Convenient Functions

Use the Full-Function side of the Remote Commander.

Displaying the on screen indications

- Press once to display all the indications. They will disappear after some seconds.
- Press twice to have the programme number and label stay on screen. Press twice again to make indications disappear.

Muting the sound.

Press .

To resume normal sound, press again.

Displaying the time

Press . This function is available only when teletext is broadcast.

To make the time display disappear, press again.

Displaying of the Programme Table

Press OK. A Programme Table will be displayed on the right side of the TV screen (See. Fig.28)

Selecting of TV programmes

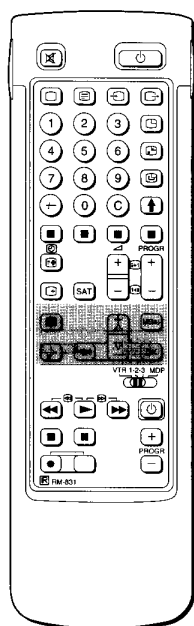
Press PROGR +/- or select the desired programme position using or and press OK.

▶	1	ARD
	2	SAT
	3	TV5
	4	CO2
	5	C15
	6	RTI
	7	SKY
	8	S34
	9	AVI
	10	MTV

Fig.28.

Adjusting and Setting the TV Using the Menu

PICTURE CONTROL SOUND CONTROL



If you have made a mistake:
Press **←** to go back to the previous position.
To go back to the main menu:
Keep pressing **←**.
To go back to the normal TV picture:
Press **MENU**.

Note:
HUE is only available for NTSC colour system.

Note on LINE OUT:
The audio level and the dual sound mode output from the **OUT** jack on the rear correspond to the **HEADPHONES VOLUME** and **DUAL SOUND** settings.

When watching a video input source with stereo sound:
You can select **DUAL SOUND** to change the sound.

Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste. In addition, you can change the aspect ratio of the TV display for wide screen effect. You can also select dual sound (bilingual) programmes when available or adjust the sound for listening with the headphones ().

- 1 Press (for picture) or (for sound) on the Remote Commander.
or
Press **MENU** and select **Picture Control** or **Sound Control**, then press **OK**.
The **PICTURE CONTROL** or **SOUND CONTROL** menu appears. (See Fig. 29 or Fig. 30)
- 2 Using **△** or **▽**, select the item you want to adjust and press **OK**. The selected item changes colour. (See Fig. 31)
- 3 Adjust the setting with **△** or **▽** and press **OK**.
The cursor appears beside the next item (at the left margin). (See Fig. 32)
For the effect of each control, see the table below.
- 4 Repeat steps 2 and 3 to adjust other items.

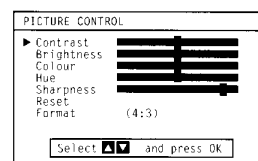


Fig. 29.

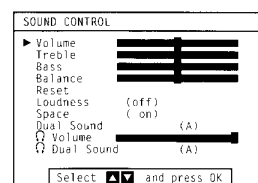


Fig. 30.



Fig. 31.



Fig. 32.

Effect of each control

PICTURE CONTROL	Effect
Contrast	Less — — More
Brightness	Darker — — Brighter
Colour	Less — — More
Hue	Greenish — — Reddish
Sharpness	Softer — — Sharper
Reset	Resets picture to the factory preset levels.
Format	4 : 3 : Normal 16 : 9 : Wide screen effect

SOUND CONTROL	Effect
Volume	Less — — More
Treble	Less — — More
Bass	Less — — More
Balance	More left — — More right
Reset	Resets sound to the factory preset levels.
Loudness	off : Normal on : When listening to low volume sound.
Space	off : Normal on : Obtain acoustic sound effect.
Dual Sound	A : left channel B : right channel stereo mono The selected mode of the A-CD-B indicator on the TV lights up. (for NICAM broadcasts see next page)
Headphones:	
Volume	Less — — More
Dual Sound	A : left channel B : right channel STEREO MONO

Selecting Nicam Broadcasts*

This Sony TV has been designed to select Nicam broadcasts when available. Whenever a Nicam broadcast is received, "NICAM" appears briefly on the screen. When the Nicam programme ends, or you switch channels to one without Nicam, the A-OD-B indicators, on the TV will switch off.

Nicam programmes can be broadcast in two ways. You may select the sound you want to hear in either of these by first following the instructions explained on page 15.

Service Being Broadcast	Action	Effect	Indication on the TV A-OD-B	
Stereo	Press Δ + or ∇ -	Stereo Nicam (Mono 2-Channel) mono		
Press Δ + or ∇ - again to return to stereo Nicam (mono 2-channel)				
Bilingual	press Δ + or ∇ -	Channel A Nicam Channel B Nicam mono		
Press Δ + or ∇ - again to return to channel A Nicam				

* Depending on availability of service.

PROGRAMME TABLE

To go back to the normal TV picture:
Press MENU.

Using the Programme Table

On this table, you can see which channel is preset to which programme position. You can also select programmes using this table.

- From the main menu, select Programme Table with Δ + or ∇ - and press OK.
The PROGRAMME TABLE menu appears. (See Fig. 33)
To scroll to higher programme numbers, press ∇ -.
- To select a programme using this menu select the programme number with Δ + or ∇ - and press OK.
The selected programme appears.

PROGRAMME TABLE			
PROG CH	LABEL	PROG CH	LABEL
1 C21	---	11 C38	---
2 C24	---	12 C40	---
3 C26	---	13 C41	---
4 C27	---	14 C43	---
5 C23	---	15 C54	---
6 C22	---	16 C55	---
7 C32	---	17 C56	---
8 C36	---	18 C57	---
9 C38	---	19 C48	---
10 C39	---	20 C46	---

Fig. 33.

TIMER

To switch off the timer:
Select "OFF" in step 3.

To check the remaining time:
Press $\odot$.

Using the Sleep Timer

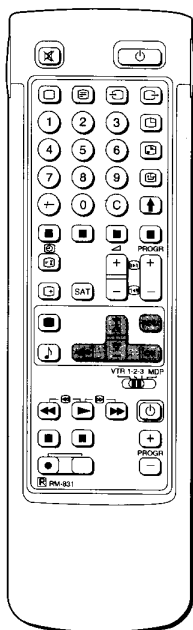
You can select a time period after which the TV automatically switches into standby mode.

- From the main menu, select Timer with Δ + or ∇ - and press OK.
The TIMER menu appears. (See Fig. 34.)
- Press OK.
The time period option changes colour.
- Select the time period with Δ + or ∇ -.
The time period (in minutes) changes as follows:
10→20→30→40→50→60→70→80→90
↑
OFF
- After selecting the time period, press OK.
The cursor moves back to the left margin and the timer starts counting.
One minute before the TV switches into standby mode, a message is displayed on the screen.

TIMER	
▶ Sleep Timer (off)	
Select Δ + and press OK	

Fig. 34.

Teletext



Note:
Teletext errors may occur if the broadcasting signals are weak.

With the simple side of the Remote Commander:

You can switch teletext on and off, operate Fastext, and directly select page numbers.

Note:
Fastext operation is only possible, if the TV station broadcasts Fastext signals.

TV stations broadcast an information service called Teletext via the TV channels. Teletext service allows you to receive various information pages such as weather reports or news at any time you want. For advanced teletext operation, use the buttons on the Full-Function side of the Remote Commander.

Direct Access Functions

Switching Teletext on and off

- 1 Select the TV channel which carries the teletext broadcast you want to watch.
- 2 Press **TEXT** to switch on teletext.
A teletext page will be displayed (usually the index page). If there is no teletext broadcast, "No text available" is displayed on the information line at the top of the screen.

To switch teletext off

Press **TEXT**.

Selecting a teletext page With direct page selection

Use the number buttons to input the three digits of the chosen page number.

If you have made a mistake, type in any three digits. Then re-enter the correct page number.

With page-catching

- 1 Select a teletext page with a page overview (e.g. index page).
- 2 Press **OK**. Using **Δ+** or **▽-**, select the desired page. "Page Catching" will be displayed on the information line. Press **OK**. The requested page will appear in a few seconds.

Press **TEXT** to resume normal teletext reception.

Accessing next or preceding page

Press **TEXT** (PAGE +) or **TEXT** (PAGE -).
The next or preceding page appears.

Superimposing the teletext display on the TV programme

- Press **TEXT** once in teletext mode or twice in TV mode.
- Press **TEXT** again to resume normal teletext reception.

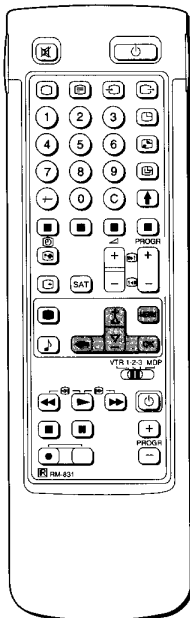
Preventing a teletext page from being updated

- Press **TEXT** (HOLD). The HOLD symbol "H" is displayed on the information line.
- Press **TEXT** to resume normal teletext reception.

Using Fastext

With Fastext you can access pages with one key stroke. When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons on the Remote Commander.

Press the corresponding coloured button on the Remote Commander which corresponds to the colour-coded menu. The page will be displayed after some seconds.



Note:
Some of the features may not be available depending on the Teletext service.

Note on Subtitles:
If the subtitles are not broadcast on page 888, please select the subtitle page using the number buttons.

To cancel the request:
Select "Subpage" and press OK.

Using the Teletext Menu

This TV is provided with a menu-guided teletext system. When teletext is switched on, you can use the menu buttons to operate the teletext menu. Select the teletext menu functions in the following way:

- 1 Press MENU. The menu will be superimposed on the teletext display. (See Fig. 35)
- 2 Using Δ + or ∇ -, select the teletext function you want and press OK. (See Fig. 36)

USER PAGES/PRESET USER PAGES

See page 19 for information about presetting and operating the user pages.

INDEX

The index will give you an overview of the contents of the teletext and the page numbers.

TOP/BOTTOM/FULL

For convenient reading of a teletext page, you can enlarge the teletext display with the ability to scroll up and down the screen. After having selected the function, an information line Top/Bottom/Full will be displayed. (See Fig. 37)

Press Δ + for Top to enlarge the upper half. For Bottom keep pressing ∇ -, to enlarge the lower half. Press OK for Full to resume the normal size.

Press ⏏ to resume normal teletext reception.

TEXT CLEAR

After having selected the function, you can watch a TV programme while waiting for a requested teletext page to be captured (The symbol changes colour) (see Fig. 38).

Press ⏏ to view the requested page.

SUBTITLES

Your teletext service will inform you if a TV programme is subtitled. After having selected the function the subtitles will be displayed.

REVEAL

Sometimes pages contain concealed information, such as answers to a quiz. The reveal option lets you disclose the information. After having selected the function, an information line "REVEAL ON/OFF" will be displayed. (See Fig. 39)

Using Δ + or ∇ -, select ON to reveal the information or OFF to conceal it again.

Press ⏏ to resume normal teletext reception.

TIME PAGE

This function is not available.

SUBPAGE

You may want to select a particular teletext page from several subpages which are rotated automatically. After having selected the function, an information line will be displayed.

To select the desired subpage, enter four digits using PROGR+/- or the number buttons. (e.g. enter 0002 for the second page of a sequence).

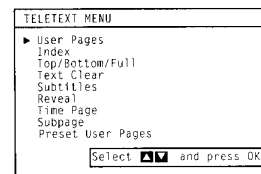


Fig. 35.

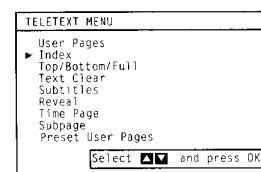


Fig. 36.

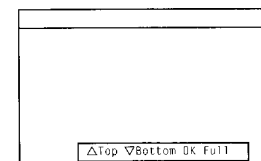


Fig. 37.

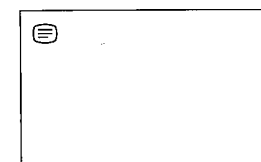


Fig. 38.

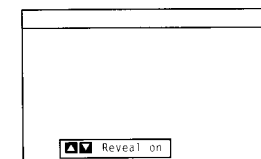


Fig. 39.

If two broadcasting stations use the same Teletext:
You can preset one bank to 2 different programme positions.

User Page Bank System

You can store up to 30 pages in the "Teletext page bank system". In this way you have quick access to the pages you watch frequently.

Storing pages

There are 5 "banks" (A to E) for 5 teletext stations. In each bank you can store 6 preferred pages (P1 to P6).

- 1 Press  (if Teletext is not on already) and MENU to show the TELETEXT MENU display.
- 2 Select PRESET USER PAGES with Δ + or ∇ - and press OK.
- 3 Select the desired bank with Δ + or ∇ - and press OK. The cursor will go to the first position (P1) of the preferred pages.
- 4 Input the three digits of your first preferred page with the number buttons and press OK.
The cursor will go to the second position.
- 5 Repeat step 4 for the other 5 page numbers you want to preset. If you do not want to preset all 6 page numbers available, press OK without inserting any number. After having finished the presetting press OK repeatedly until the cursor appears besides the next bank at the left margin.
- 6 Select Allocate Bank with Δ + or ∇ - and press OK.
- 7 Select the programme position for which you have preset pages with Δ + or ∇ - and press OK. (See Fig. 40)
- 8 Select the desired bank with Δ + or ∇ - (Banks A to E are available) and press OK.
- 9 Repeat steps 3 to 8 for the other 4 banks available.

Displaying User Pages

- 1 Select MENU.
- 2 Select User Pages with Δ + or ∇ - and press OK.
A table of the stored preferred pages will be displayed. (See Fig. 41)
- 3 Select the desired page with Δ + or ∇ - and press OK. The page will be displayed after some seconds.

You can use the coloured buttons on the Remote Commander to have quick access to the first four User pages. Page 1 corresponds to the red button, P 2 to the green one, P 3 to the yellow one and P 4 to the blue button.

To select the desired page press the respective coloured button while you are in TV mode. Now the Page number of this teletext page will appear in white at the top in the left-handed corner of the TV screen. When the page number changes colour, the page is available. Press the coloured button again to display the page.

PRESET USER PAGES						
BANK	P1	P2	P3	P4	P5	P6
A	300	255	456	234	200	179
B	200	120	301	303	550	345
C	100	220	300	444		
D	128	321	255			
E	400	238	240	118	127	

Allocate Bank					
PROG LABEL	BANK	PROG LABEL	BANK	PROG LABEL	BANK
00	VHS	-	04	MTV	D
01	BBC1	A	05	SKY	B
02	BBC2	C	06	ITV	C

Select  and press OK

Fig. 40.

USER PAGES - BANK B	
▶ PAGE 300	
PAGE 200	
PAGE 203	
PAGE 500	
PAGE 234	
PAGE 159	

Select  and press OK

Fig. 41.

Connecting and Operating Optional Equipment

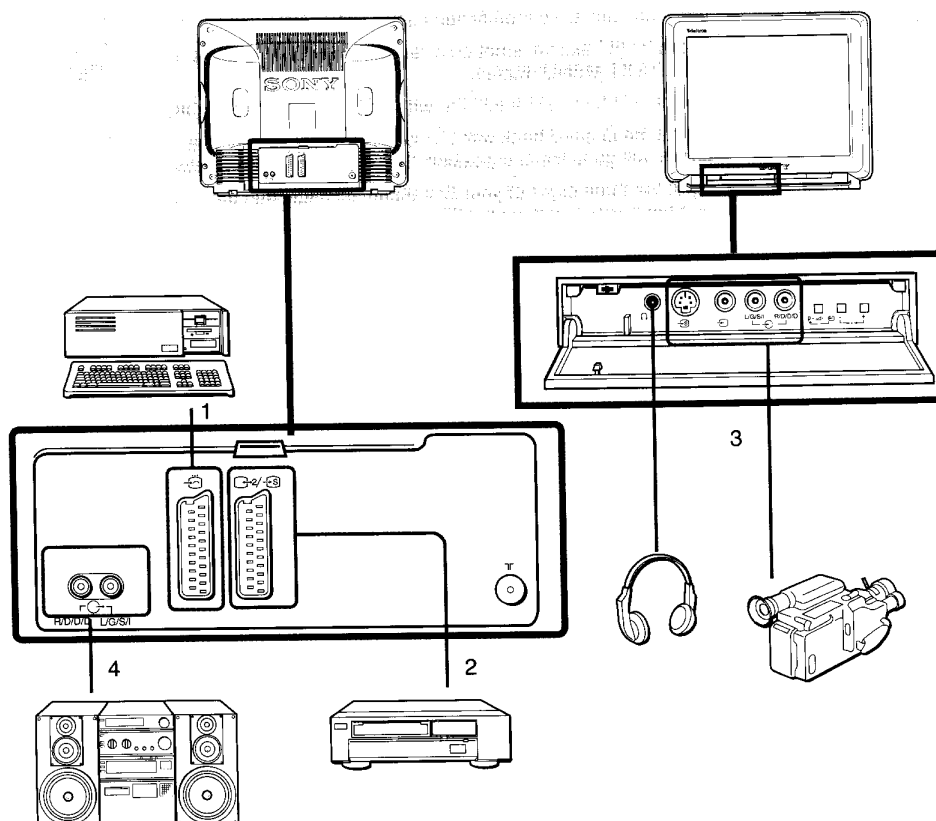
Connecting Optional Equipment

You can connect optional audio-video equipment to this TV such as VTRs, video disc players, and stereo systems.

To connect a VTR using the Π terminal:
Connect the aerial output of the VTR to the aerial terminal Π of the TV.

We recommend that you tune in the signal to programme number "0". For details see "Preset Channels Manually" on page 8.

If the picture or the sound is distorted:
Move the VTR away from the TV.



S video input (Y/C input):

Video signals may be separated into Y (luminance or brightness) and C (chrominance) signals. Separating the Y and C signals prevents them from interfering with one another, and therefore improves picture quality (especially luminance). This TV is equipped with 2 S Video input jacks through which these separated signals can be input directly.

When connecting a monaural VTR:

Connect only the white $\ominus$ jack to both the TV and VTR.

Acceptable input signal	Available output signal
1 Normal audio/video and RGB signal	Video/audio from TV tuner
2 Normal audio/video and S video signal	Video/audio from selected source
3 Normal audio/video and S video signal	No outputs
4 No inputs	Audio signal (variable)

Checking and selecting the input and output sources using the menu

You can display the menu to see which input sources are selected for the TV screen, and which output source is selected. You can also select them on the menu display.

- 1 Select Video Connection with Δ + or ∇ - and press OK. The VIDEO CONNECTION menu appears. (See Fig. 42)

You can see which source is selected for the TV and for the output. If you want to select the input and output on this menu, go on to the next step.

- 2 Select TV Screen (input source for the TV screen) or output (output source) with Δ + or ∇ - and press OK. One of the source items changes colour. (See Fig. 43)

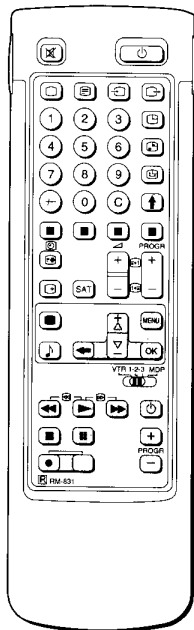
- 3 Select the desired source with Δ + or ∇ -.
(See Fig. 44)

For details about each source, see the table on page 21.

- 4 Press OK.

The selected source is confirmed, and the cursor appears. (See Fig. 45)

- 5 Repeat steps 2 to 4 to select the source for other inputs or outputs.



When recording
When you use the $\bullet$ (record) button, make sure to press this button and the one to the right of it simultaneously.

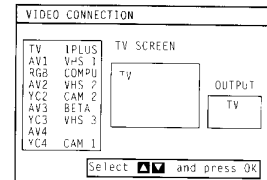


Fig. 42.

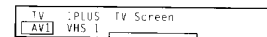


Fig. 43.

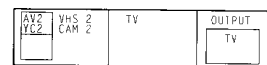


Fig. 44.

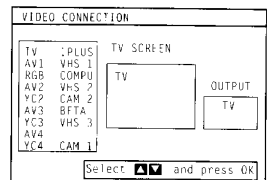


Fig. 45.

Remote Control of Other Sony Equipment

You can use the TV Remote Commander to control most Sony remote-controlled video equipment such as: Beta, 8mm or VHS VTRs or video disc players.

Tuning the Remote Commander to the equipment

- 1 Set the VTR 1/2/3 MDP selector according to the equipment you want to control:

VTR 1: Beta or ED Beta VTR

VTR 2: 8mm VTR

VTR 3: VHS VTR

MDP: Video disc player

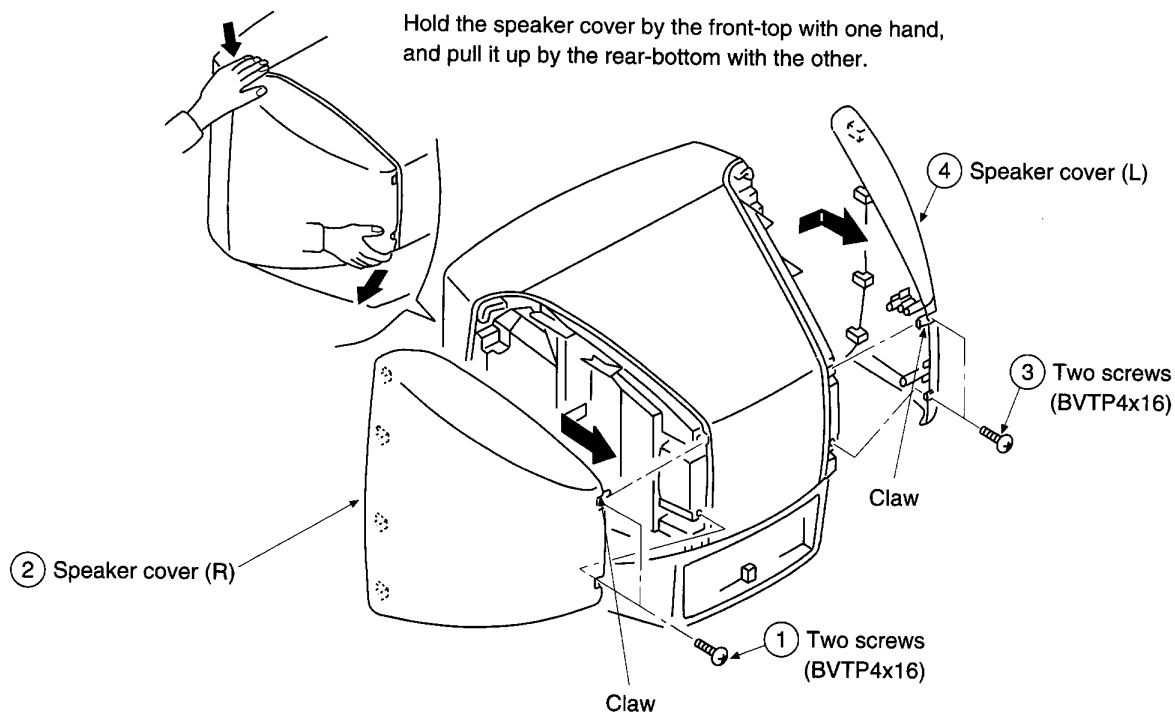
- 2 Use the buttons indicated in the illustration to operate the additional equipment.

If your video equipment is furnished with a COMMAND MODE selector: set this selector to the same position as the VTR 1/2/3 MDP selector on the TV Remote Commander.

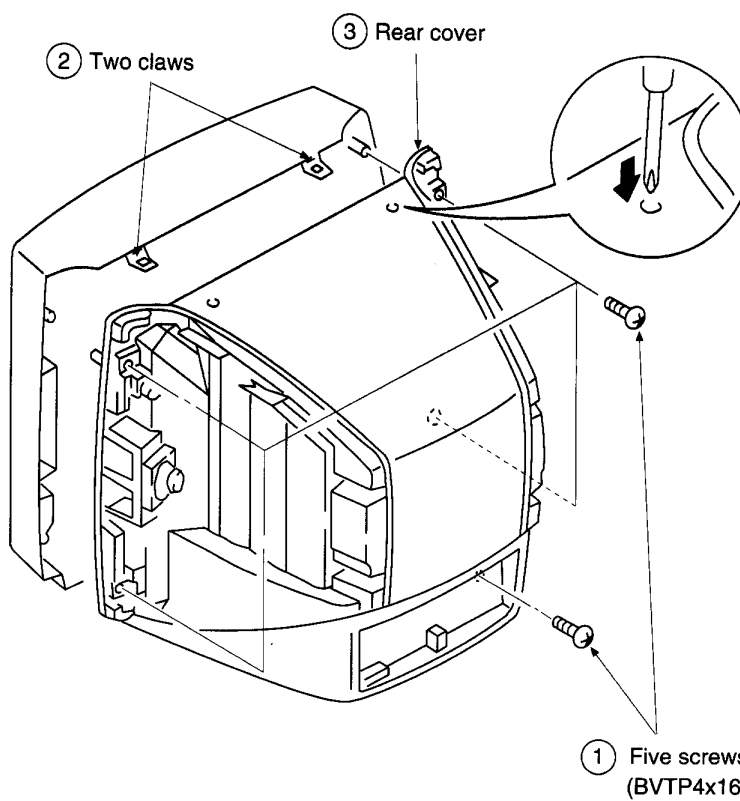
If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate.

SECTION 2 DISASSEMBLY

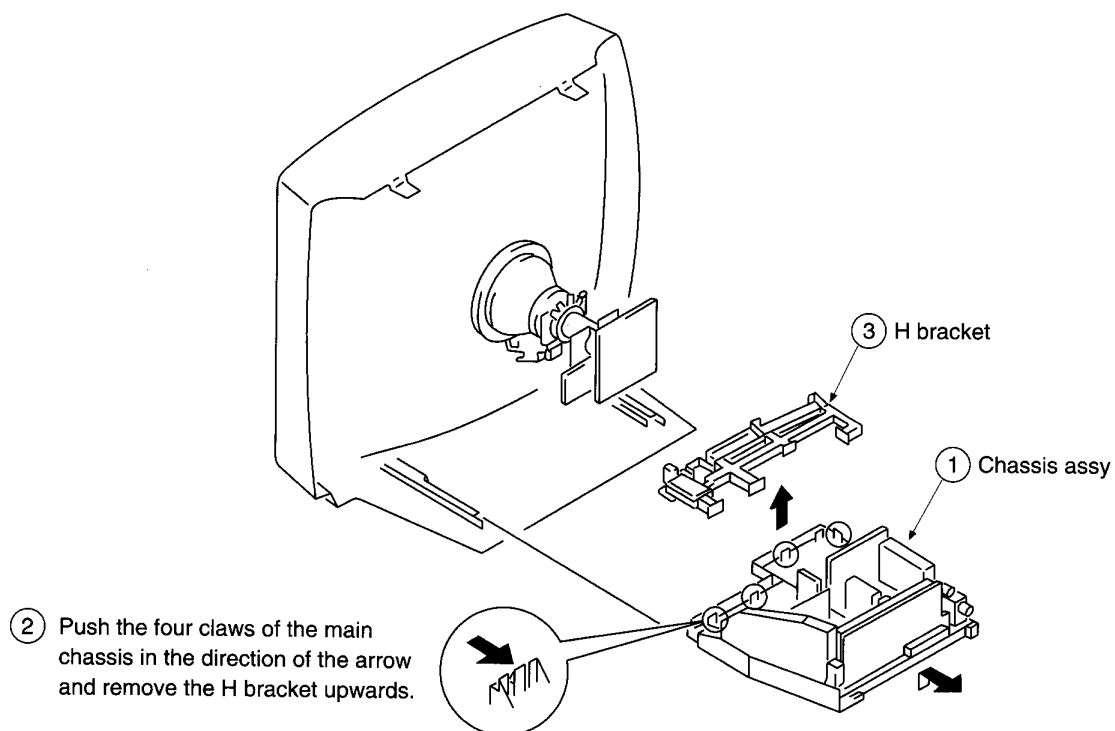
2-1. SPEAKER COVER REMOVAL



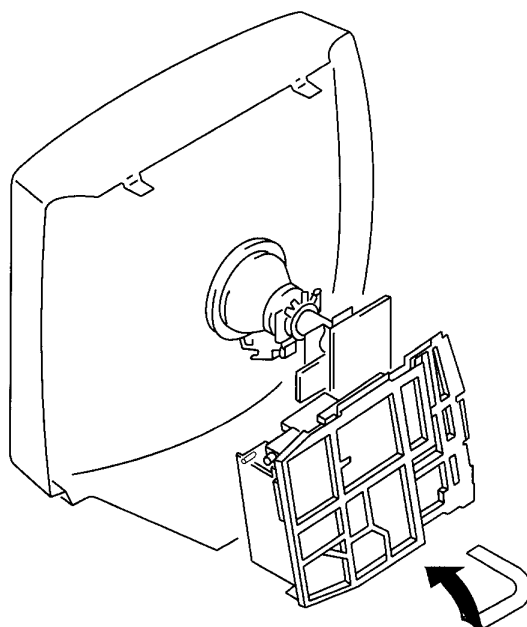
2-2. REAR COVER REMOVAL



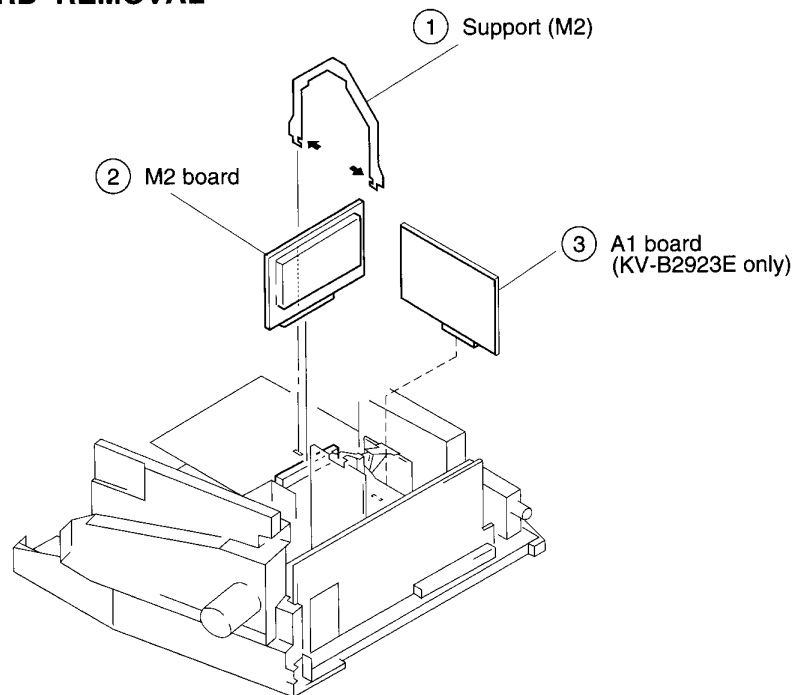
2-3. CHASSIS ASSY REMOVAL



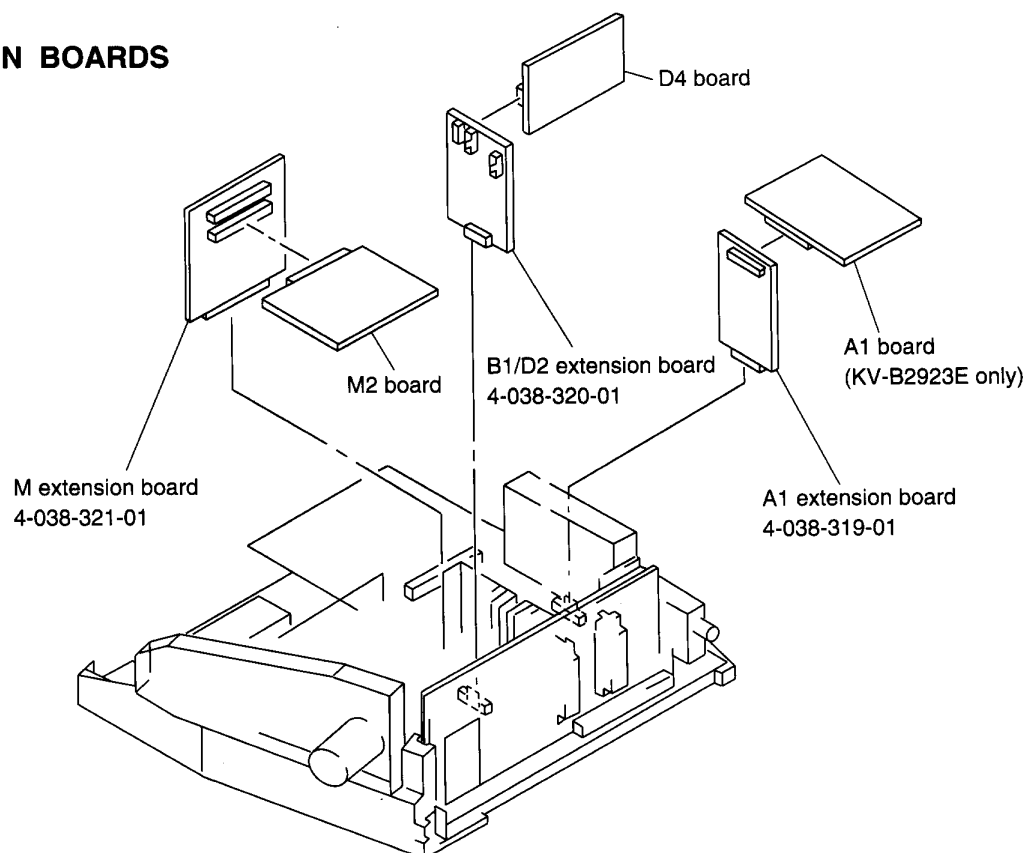
2-4. SERVICE POSITION



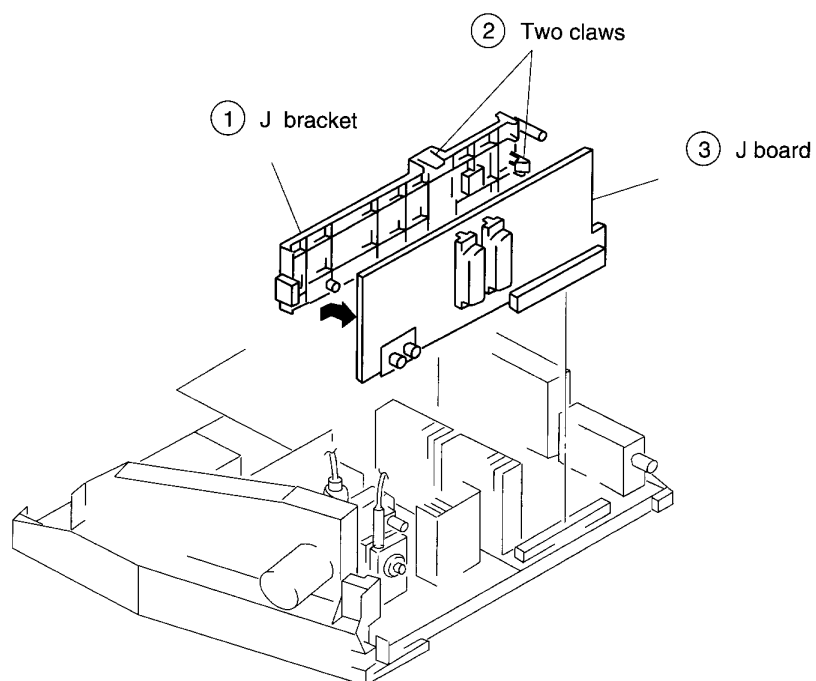
2-5. M2 AND A1 BOARD REMOVAL



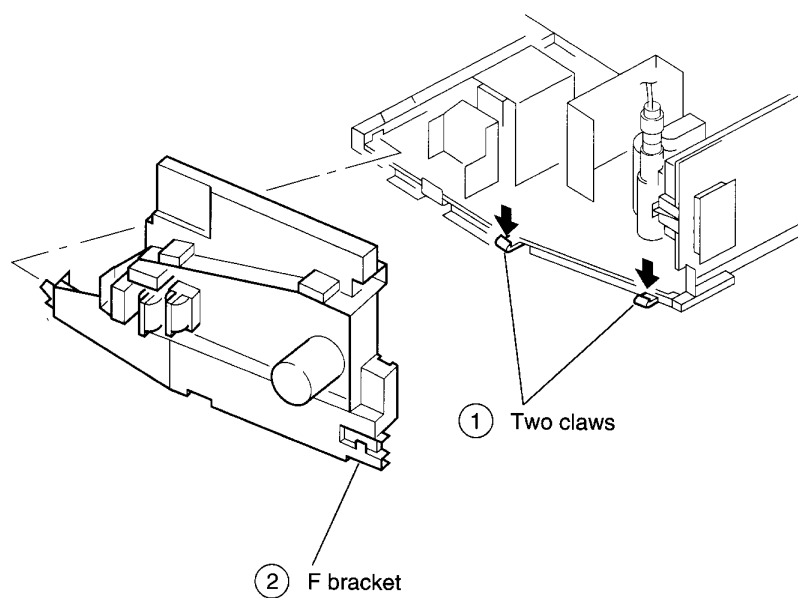
2-6. EXTENSION BOARDS



2-7. J BOARD REMOVAL

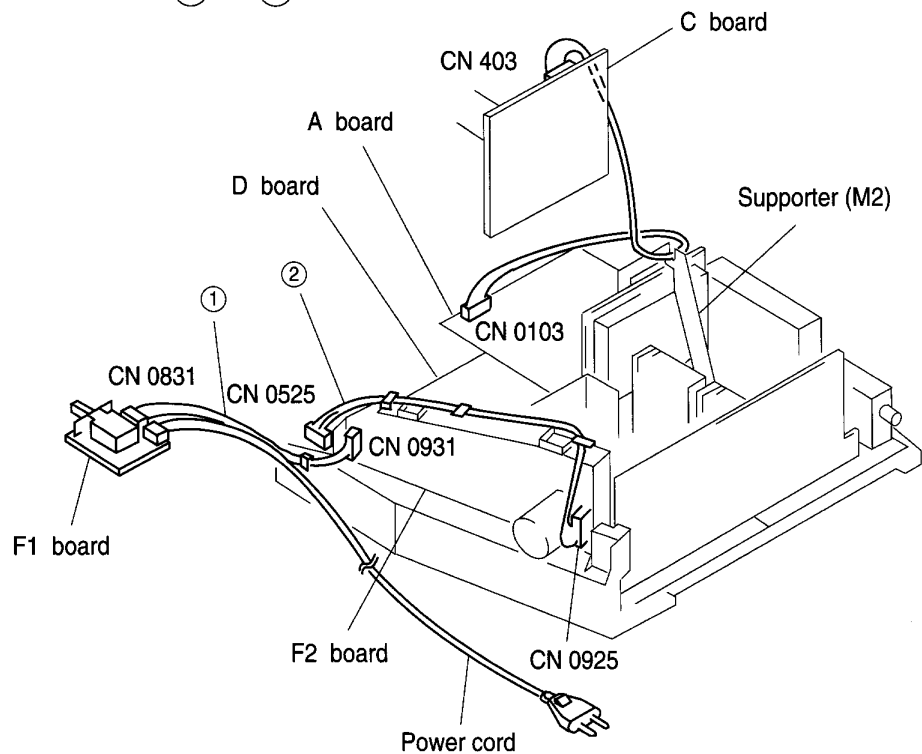


2-8. F BRACKET REMOVAL

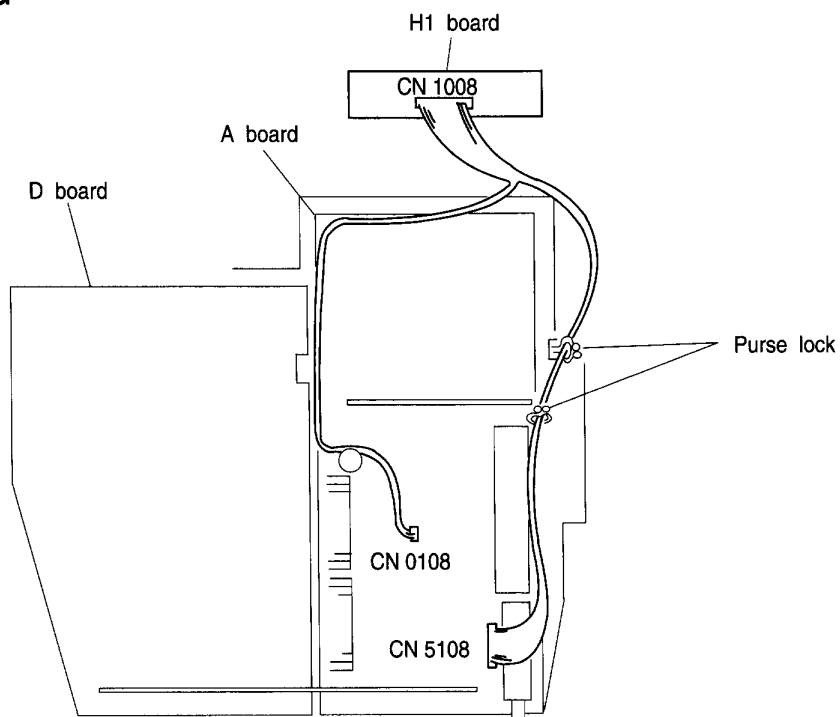


2-9-1. WIRE DRESSING

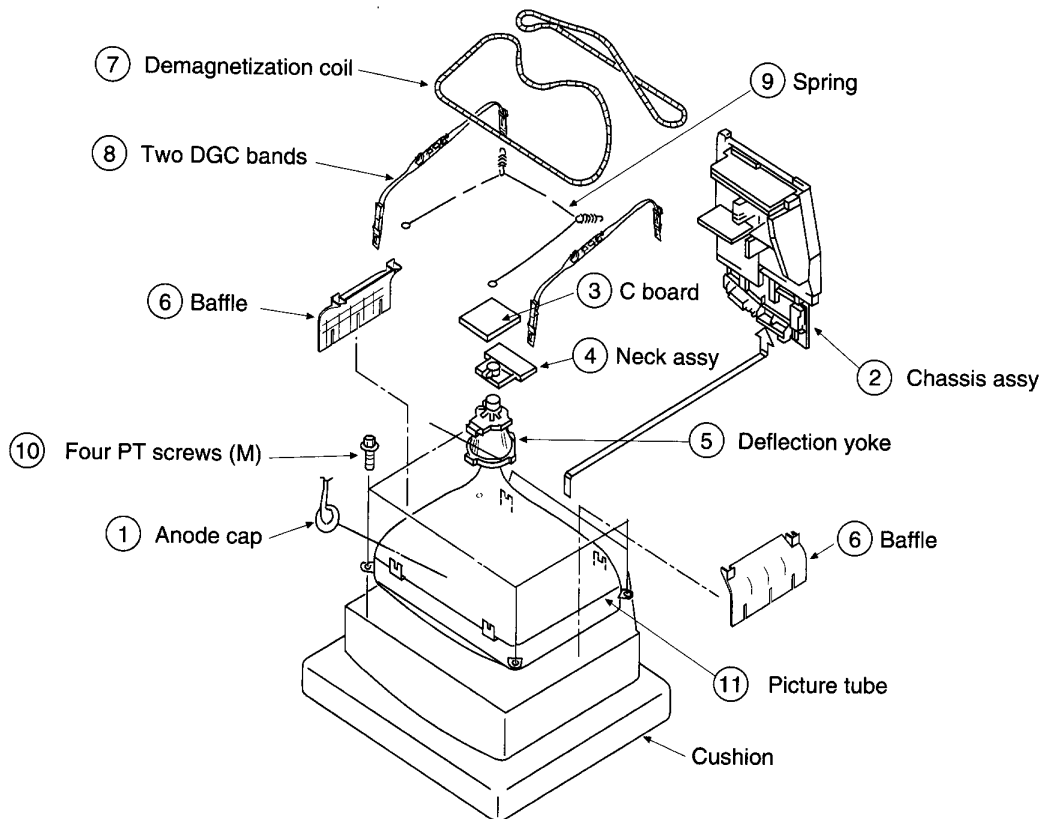
* Keep distance between ① and ②



2-9-2. WIRE DRESSING



2-10. PICTURE TUBE REMOVAL



• REMOVAL OF ANODE-CAP

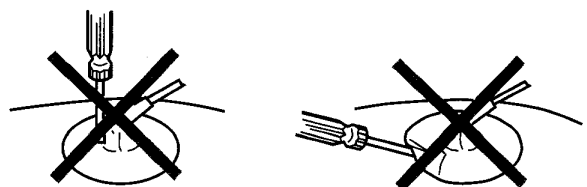
Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

* REMOVING PROCEDURES.

-
- ① Turn up one side of the rubber cap in the direction indicated by the arrow ①
 - ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ②
 - ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ③

• HOW TO HANDLE AN ANODE-CAP

- ① Don't damage the surface of anode-cap with sharp shaped material !
- ② Don't press the rubber hardly not to hurt inside of anode-caps !
A metal fitting called as shatter-hook terminal is built into the rubber.
- ③ Don't turn the foot of rubber over hardly !
The shatter-hook terminal will stick out or damage the rubber.



SECTION 3

SET - UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to these settings :

● Contrast 80% (or remote control normal)
 ☆ Brightness 50%

- Carry out the following adjustments in this order :

1. Beam landing
2. Convergence
3. Focus
4. White balance

Note: Testing equipment required.

1. Color bar/pattern generator
2. Degausser
3. DC power supply
4. Digital multimeter
5. Oscilloscope

Preparation:

- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

1. Input the white signal with the pattern generator.
 CONTRAST } normal
 BRIGHTNESS }
2. Position neck assy as shown in Fig.3-2.
3. Set the pattern generator raster signal to red.
4. Move the deflection yoke forward and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side. (See Fig. 3-1 - 3-3)
5. Move the deflection yoke forward and adjust so that the entire screen becomes red. (See Fig. 3-1)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Fig. 3-4)

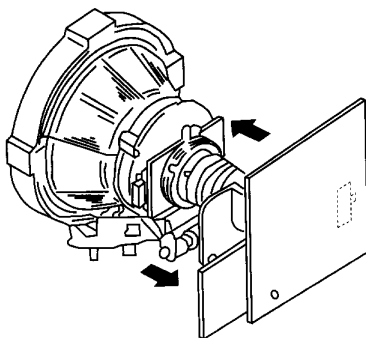


Fig. 3-1

Fig. 3-2

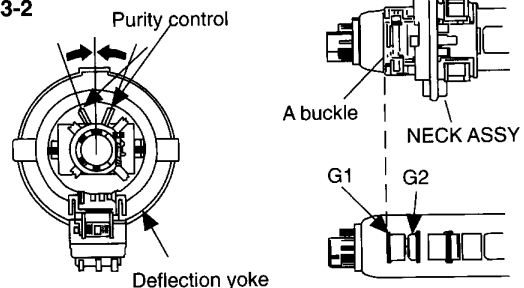


Fig. 3-3

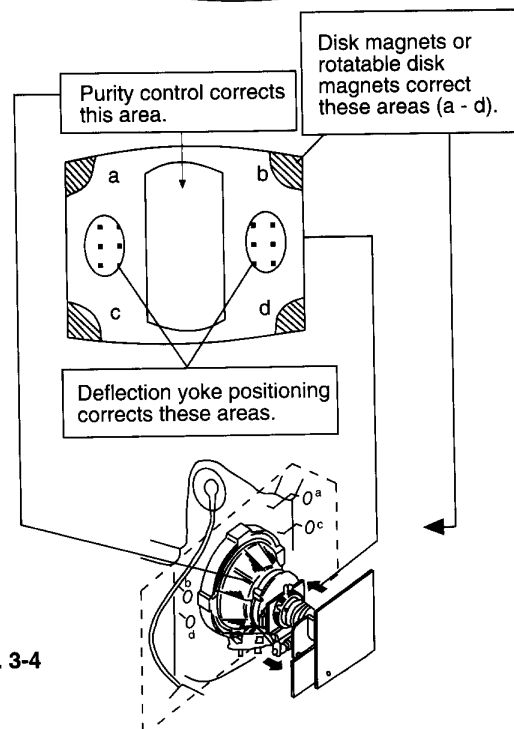
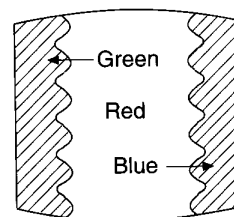


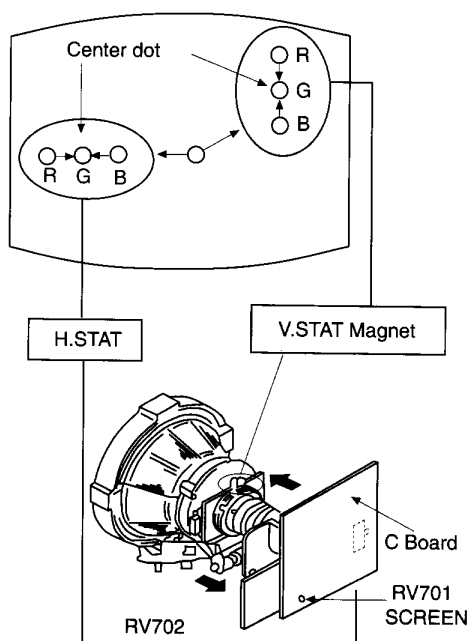
Fig. 3-4

3-2. CONVERGENCE

Preparation:

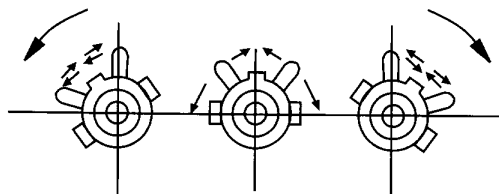
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide a dot pattern.

(1) Horizontal and vertical static convergence

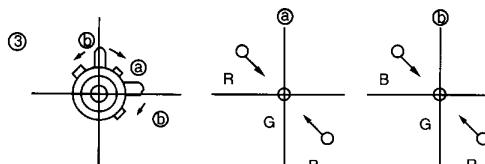
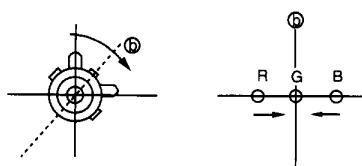
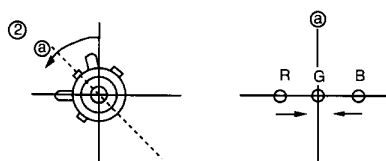
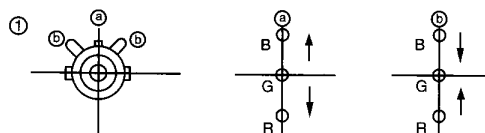


1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below.
(In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

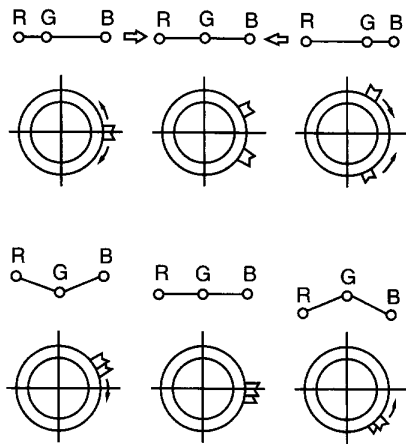
- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.



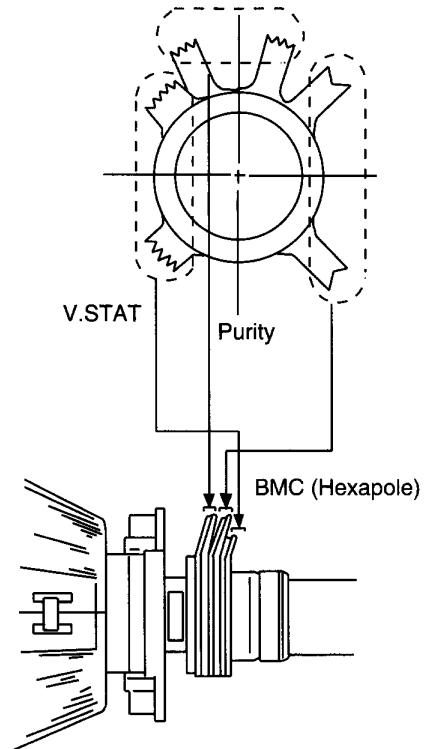
4. If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the red, green, and blue points move as shown below.



- Operation of BMC (Hexapole) Magnet



- The respective dot position resulting from moving each magnet interact, so be sure to perform adjustment while tracking. Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of the screen (by moving the dots in the horizontal direction).

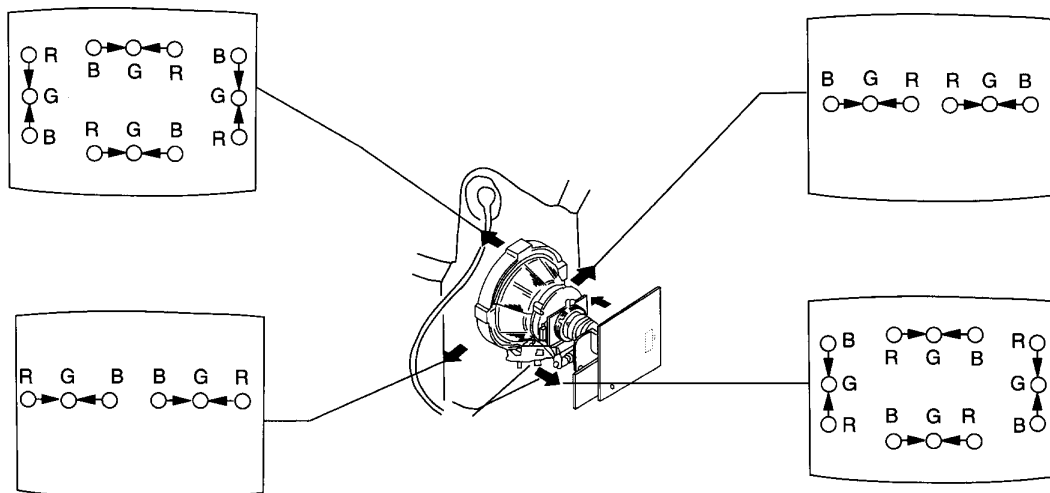


(2) Dynamic convergence adjustment.

Preparation:

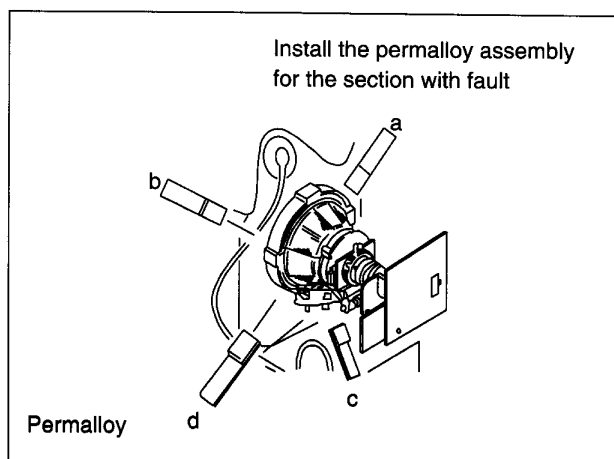
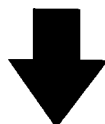
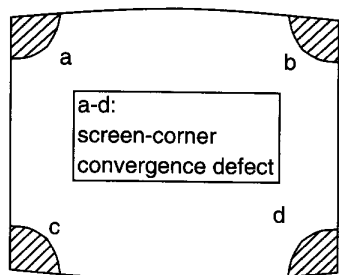
- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.
- Slightly loosen the deflection yoke screws.

- Remove the deflection yoke spacer.
- Move the deflection yoke as shown in the figure below and optimize the convergence.
- Tighten the deflection yoke screws.
- Re-install the deflection yoke spacer.

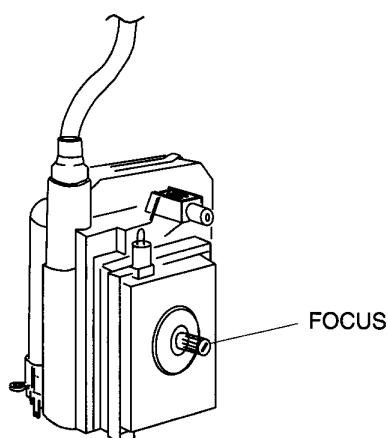


(4) Screen corner convergence.

If you are unable to adjust the corner convergence properly, correct them with the use of permalloy assemblies.

**3-3. Focus**

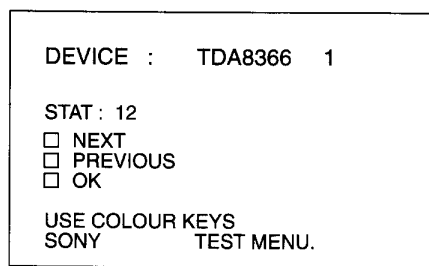
Adjust the focus to optimize the screen.

**3-4. WHITE BALANCE****Screen G2 Setting**

1. Input the dot signal from the pattern generator.
2. Set the picture brightness control to its lowest level.
3. Apply 180V DC to the R,G, and B cathodes with an external power supply.
4. While watching the picture, adjust G2 control RV701 (Screen) to the point just before the return lines disappear.

White balance adjustment

1. Receive an all-white signal.
2. Enter into service mode. (Refer to the section 4 "Electrical Adjustment" on how to enter service mode.)
3. Select TDA8366 1 on menu.



4. Press the White button on the Remote Commander to enter into the device Menu.
5. Press the Red button 10 times "Next" "Next" "Next" to select HWB RED, adjust to 040.
6. Press the Red button to select HWB GREEN, adjust with the + and - menu buttons so that the white balance becomes optimum.
7. Press the Red button to select HWB BLUE, adjust with the + and - menu buttons so that the white balance becomes optimum.
8. Press the TV button twice on the Remote Commander to store the data and return to TV operation.

SECTION 4

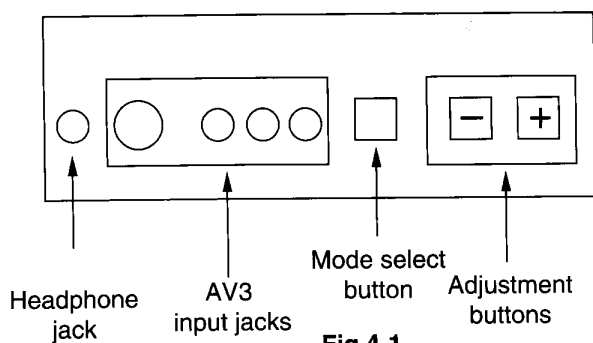
CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander RM-831

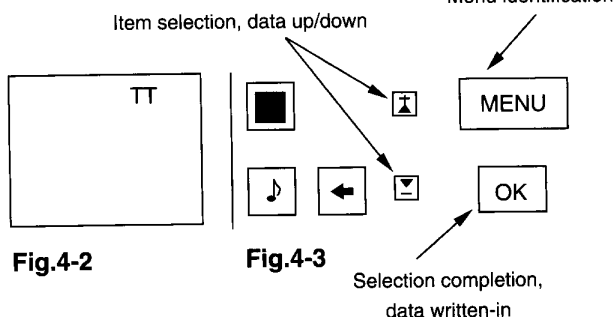
HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set while pressing any two buttons on the front panel.



2. "TT" will appear at the upper right corner of the screen.

Command operation in service mode.



3. Press the **MENU** button on the remote commander to obtain the menu on the screen.

MAIN MENU	
Programme Table	
Video Connection	
Picture Control	
Sound Control	
Timer	
Preset	
Language	
> DEMO	
Select < > and press OK	

Fig.4-4

4. Press the **▲** and **▼** buttons on the remote commander and move > to DEMO.
5. Press **OK** button to proceed to the next menu.
6. The menu of fig. 4-5 will appear on the screen. Select the **DEVICE** corresponding to the adjustment item from the table on the next page.

DEVICES	
Initialize	
> CXA1587	
CXD2018	
TDA9145	
CXA1526	
TDA6612	
CX7948A	
P/P service	
Select < > and press OK	

Fig. 4-5

7. If adjustment item is CXA1587, press the **▼** button and move > to CXA1587.

CXA1587

Item No	Adjustment item	Data Amount
01	PICTURE	53
02	COLOR	31
03	BRIGHT	31
04	HUE	31
05	SHARPNESS	12
06	RGB PICTURE	7
07	SUB CONTRAST	ADJ.
08	SUB COLOR	ADJ.
> 09	SUB BRIGHT	ADJ.
10	SUB HUE	8
11	VM LEVEL	2
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.

8. Press **OK** button to get the next selection menu.
9. Press **▼** button and move > to the adjustment item and press **OK** button.
10. Press **▲** and **▼** buttons to change the data in order to comply with each standard.
11. Press **OK** button to write data.
12. Turn off the power to quit service mode when adjustments are completed.

CXA1587

Item No	Adjustment item.	Data Amount
01	PICTURE	53
02	COLOR	31
03	BRIGHT	31
04	HUE	31
05	SHARPNESS	12
06	RGB PICTURE	7
07	SUB CONTRAST	ADJ.
08	SUB COLOR	ADJ.
09	SUB BRIGHT	ADJ.
10	SUB HUE	8
11	VM LEVEL	2
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.
16	G-AUTO CUT OFF	ADJ.
17	B-AUTO CUT OFF	ADJ.
18	R-MANUAL CUT OFF	ADJ.
19	G-MANUAL CUT OFF	ADJ.
20	B-MANUAL CUT OFF	ADJ.
21	GAMMA LEVEL	8
22	DC TRANSFER RATIO	3
23	DYNAMIC PICTURE	2
24	Y FILTER ADJ	ADJ.
25	Y DELAY TIME	15
26	Y DELAY SWITCH 1	0
27	Y DELAY SWITCH 2	1
28	SHARPNESS LIMIT	ON
29	TRAP	OFF
30	H SHIFT	36
31	DA TEST	ON
32	PRE/OVER	12
33	SUB FOCUS	2
34	SUB SHARPNESS	3
35	R MUTE	OFF
36	G MUTE	OFF
37	B MUTE	OFF
38	AGING 1 WHT	OFF
39	AGING 2 BLK	ON
40	AKB OFF	ON
41	INHIBIT RGB	ON
42	FORCED RGB	OFF
43	V/2 V	OFF
44	AXIS	PAL
45	HUE OFF	OFF
46	V EXTENSION	OFF
47	AFC 1	1
48	AFC 2	0
49	AFC	OFF
50	REF. POSITION	0

CXD2018

Item No	Adjustment item.	Data Amount
01	V SIZE	ADJ.
02	V SHIFT	ADJ.
03	S CORRECTION	ADJ.
04	V LINEARITY	ADJ.
05	H SIZE	ADJ.
06	PIN AMP	ADJ.
07	TILT	ADJ.
08	UPPER CORNER	ADJ.
09	LOWER CORNER	ADJ.
10	V BOW	ADJ.
11	ANGLE	ADJ.
12	HV COMP. V	12
13	HV COMP. H	8
14	FRAME SHIFT	OFF
15	FREE RUN 60 Hz	OFF
16	SYSTEM 60 Hz	OFF
17	ASPECT WIDE	OFF
18	DOUBLE SCAN	OFF
19	INTERLACE	ON
20	H SHIFT	26
21	N/S CORRECTION	ADJ.

Typical On Screen Display based values when receiving PAL
Phillips pattern.

TDA6612	ADJ
Stereo-Separation	(31)

Should be adjusted twice, once for 4 : 3 and once for 16 : 9
mode.

Y FILTER ADJUSTMENT

1. Input a PAL RED pattern.
2. Connect an oscilloscope to pin ① of CN0403 (R OUT) on C board.
3. Enter into service mode and press 3,8.
4. Adjust data by $\triangle$ or ∇ to minimize the chroma element at CN0403 pin ①.

SUB BRIGHTNESS ADJUSTMENT

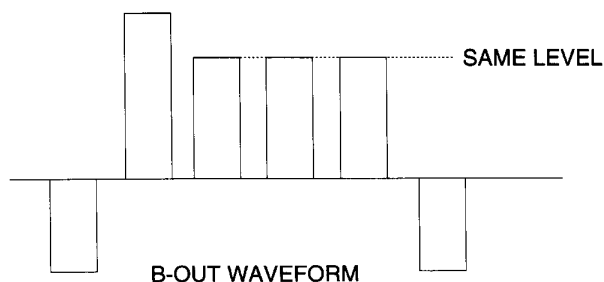
1. Input a Phillips pattern.
2. Enter into service mode and press 23.
3. Adjust data so that 0-IRE of grey scale and CUT-OFF 20-IRE are only slightly visible on screen.

SUB CONTRAST ADJUSTMENT

1. Input a video that contains a small 100% area on a Black Background.
2. Enter into service mode and press 01 to have PIC max followed by 21.
3. Connect oscilloscope to pin ① of CN0403 (R OUT) and adjust data to obtain 2.5Vp-p.

SUB COLOR ADJUSTMENT

1. Input a PAL color bar signal.
2. Connect an oscilloscope to pin ③ of CN0403 (B OUT) on the C board.
3. Enter into service mode and press 22 of CXA1587, 8 SUB COLOR.
4. Adjust data so that the right sides of the waveform are set to the same level.

**STEREO-SEPARATION ADJUSTMENT**

1. Input a 1kHz stereo signal to the L-ch and a 400Hz stereo signal to the R-ch.
2. Enter into service mode and press 19.
3. Adjust data so that sound is not detected in the Right-ch and the Left-ch.

DRIVE AND CUT-OFF

See direct test mode list attached and refer to sub brightness or such for adjustment method.

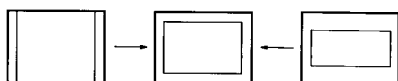
DEFLECTION SYSTEM ADJUSTMENT

1. Enter into service mode and select CXD2018.
2. Select and adjust each item in order to obtain the optimum image.

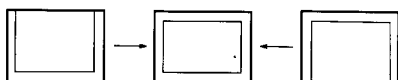
CXD2018

Item No	Adjustment item.	Data Amount
01	V SIZE	ADJ.
02	V SHIFT	ADJ.
03	S CORRECTION	ADJ.
04	V LINEARITY	ADJ.
05	H SIZE	ADJ.
06	PIN AMP	ADJ.
07	TILT	ADJ.
08	UPPER CORNER	ADJ.
09	LOWER CORNER	ADJ.
10	V BOW	ADJ.
11	ANGLE	ADJ.
12	HV COMP. V	12
13	HV COMP. H	8
14	FRAME SHIFT	OFF
15	FREE RUN 60 Hz	OFF
16	SYSTEM 60 Hz	OFF
17	ASPECT WIDE	OFF
18	DOUBLE SCAN	OFF
19	NON INTERLACE	ON
20	H SHIFT	26
21	N/S CORRECTION	ADJ.

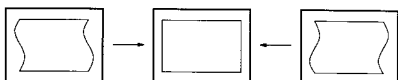
V SIZE



V SHIFT



S CORRECTION



V LINEARITY



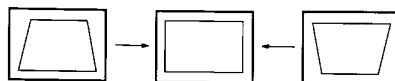
H SIZE



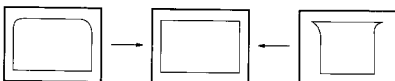
PIN AMP



TILT



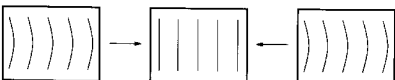
UPPER CORNER PIN



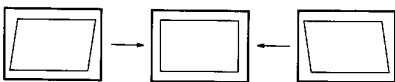
LOWER CORNER PIN



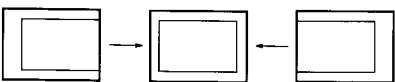
V BOW



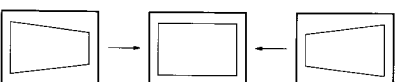
ANGLE



H SHIFT



N/S CORRECTION



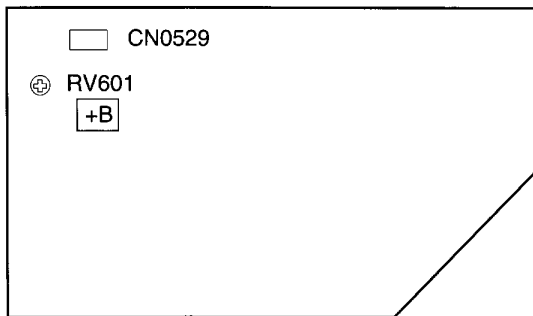
3. Press **OK** button to write data.

If the menu display prevents accurate adjustment, press **X** to clear, to resume, press **X** once again.

4-2. VOLUME ELECTRICAL ADJUSTMENTS

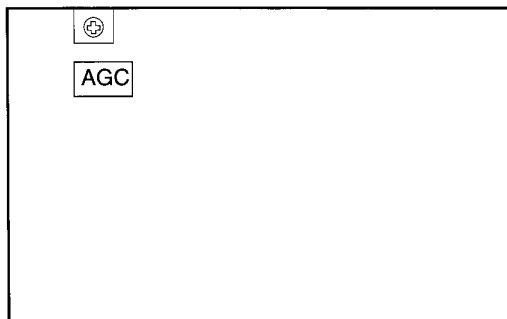
+B (+135V) ADJUSTMENT (RV601)

D BOARD



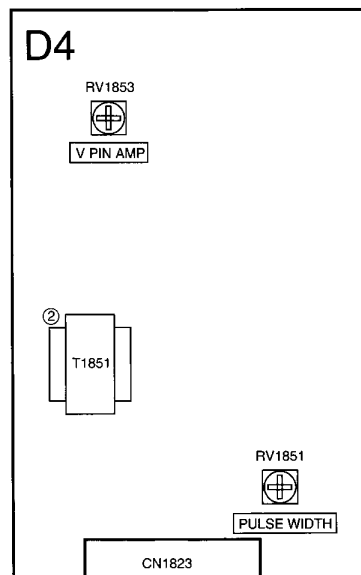
1. Switch on the power to the TV set.
2. Connect a digital multi-meter to pin ① of CN0529 on D board.
3. Adjust RV601 on D board to $+135V \pm 0.5V$.

AGC ADJUSTMENT (IF BLOCK)

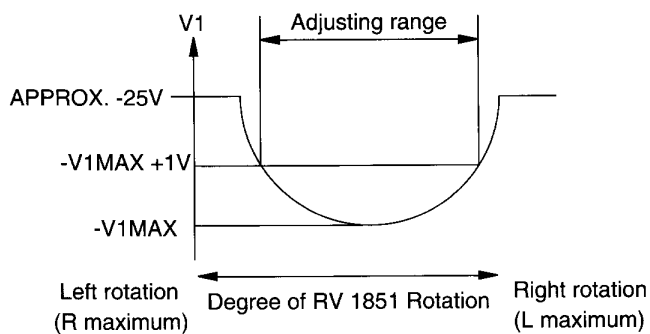


1. Receive an off-air signal.
2. Adjust the AGC VR so that there is no snow noise or cross-modulation visible on the screen.
3. Change the receiving channel and confirm status.

PULSE WIDTH & V-PIN ADJUSTMENTS (RV 1851/1853)



1. Connect an oscilloscope to pin ② of T1851.
2. Preset RV-1853 to center of its range (mechanical center).
3. Adjust RV-1851 to obtain minimum amplitude.
4. Switch the oscilloscope input to D.C. and adjust RV-1853 to obtain $-33.2 \pm 0.5V$.



4-3. TEST MODE 2 :

Is available by pressing Test button twice, OSD 'TT' appears. The functions described below are available by pressing the two numbers. To release the Test Mode 2, press 0 twice, or switch the TV into Stand-by Mode.

00	switch Test Mode 2 off
01	picture maximum
02	picture minimum
03	Volume 35%
04	Volume 50%
05	Volume 65%
06	Volume 80%
07	Ageing Condition (Volume min., Picture max., Brightness max., Ageing 2 Mode of CXA1587, TDA2595 is locked to CXA1587 via PIN 34 of μ -Con.)
08	Shipping Condition (Analog Values are RESET due to factory setting, Prog 1 is selected, TT Mode is switched off)
09	dummy
10	Tenth entry is deleted
11	Balance
12	Hue
13	Display of Software Version and TV set configuration
14	Adjustment of N/S Correction
15	Read factory setting from NVM Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory)
16	Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM.
17	Preset Level for AV Sources
18	dummy
19	Stereo Separation
20	Tenth entry is deleted
21	Sub Contrast
22	Sub Colour
23	Sub Brightness
24-29	dummy

30	Tenth entry is deleted
31	Green Drive
32	Blue Drive
33	Green Cut Off (Auto Cut Off)
34	Blue Cut Off (Auto Cut Off)
35	Red Cut Off (Manual Cut Off) (Auto Cut Off is switched off)
36	Green Cut Off (Manual Cut Off) (Auto Cut Off is switched off)
37	Blue Cut Off (Manual Cut Off) (Auto Cut Off is switched off)
38	Y-Filter adjustment (Trap is switched off and TDA9145 is switched in forced NTSC Mode)
39	dummy
40	Tenth entry is deleted
41	Default setting of CXA1587 (Only available in Prog 99)
42	Default setting of CXA2018 (Only available in Prog 99)
43	Default setting of CXA1526 (Only available in Prog 99)
44	(all Port High) Not yet
45	(all Port High) Not yet
46	IR Channel Presetting Mode The channel presetting can be done by a Special IR Transmitter
47-48	dummy
49	Erase the NVM Testbyte (this byte detects already stored NVM's) After selecting this function, switch TV Off and On -> the NVM will be preset by μ -Controller. (Not the channel data)

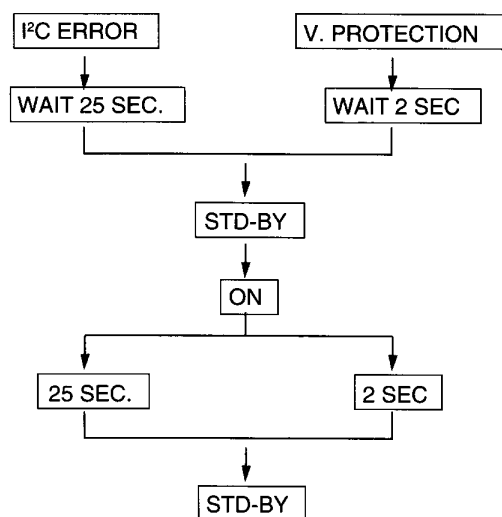
Note: For No 35, 36, 37 and 38 special pressing (AKB, forced Color Mode, Trap) is selected. After selecting a new Test Mode Number, the AKB is switched ON, the Trap is switched ON and TDA9145 is switched to Auto Search Mode.

In Test Mode 2 the Menu display is switchable by the Speaker-Off button.

4-4. ERROR MESSAGE

Self diagnostic system operates as follows.

- When the microprocessor is unable to receive an acknowledgement back from the device, the LED starts flashing according to the table below.



In the case of more than one error in parallel, the blinking error shows max priority according to the error number (e.g. error 2 and error 5 appear together, then LED,s show error 2).

ERROR TABLE

ERROR COUNT	IC TYPE	FUNCTION
1	II C BUS	SDA low
2	X24C16	EPROM
4	TDA9145	Colour decoder
5	CXA1587	RGB/Jungle
6	TDA6612	Sound processor
7	CXD2018	V deflection
8	CXA1545	AV switch
11	SDA5248	Text
13		V protection

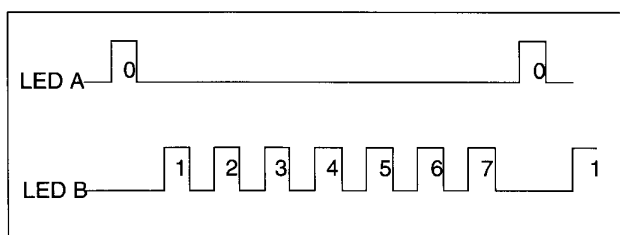
Stand By LED blinking

No 1K return

4-5. ERROR I²C BUS DIAGNOSTIC SYSTEM FOR AE2-B CHASSIS.

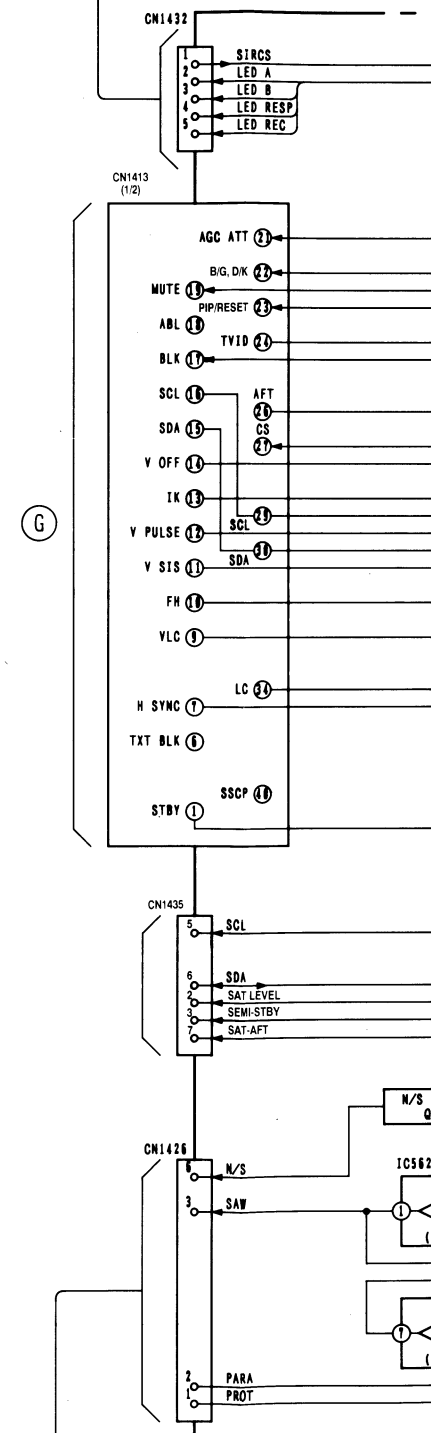
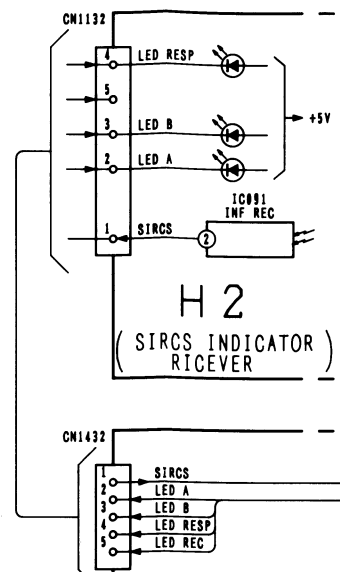
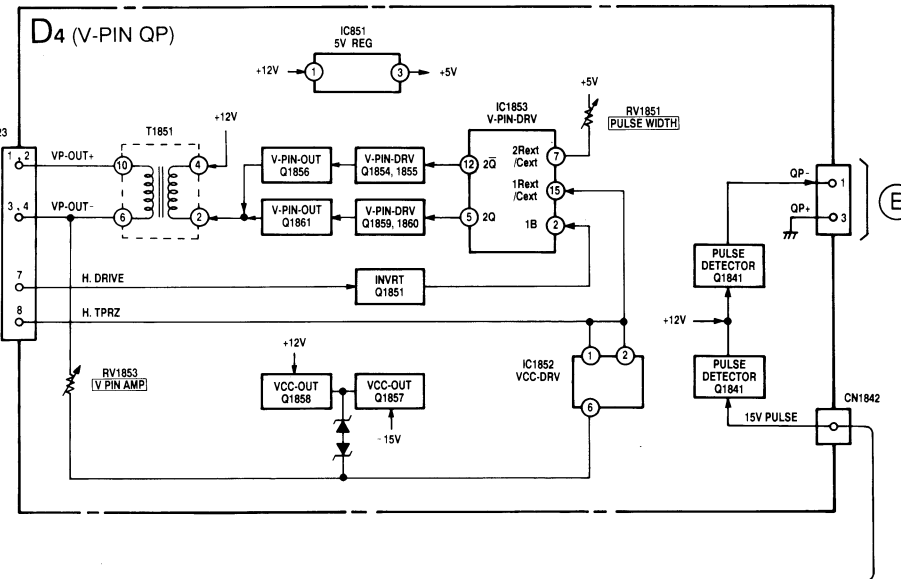
For all IC's used in the AE 2-B chassis which are necessary to obtain picture and sound there is an inbuilt I²C Bus diagnostic system.

In the case of no acknowledge bit, LED A and LED B start blinking as shown.

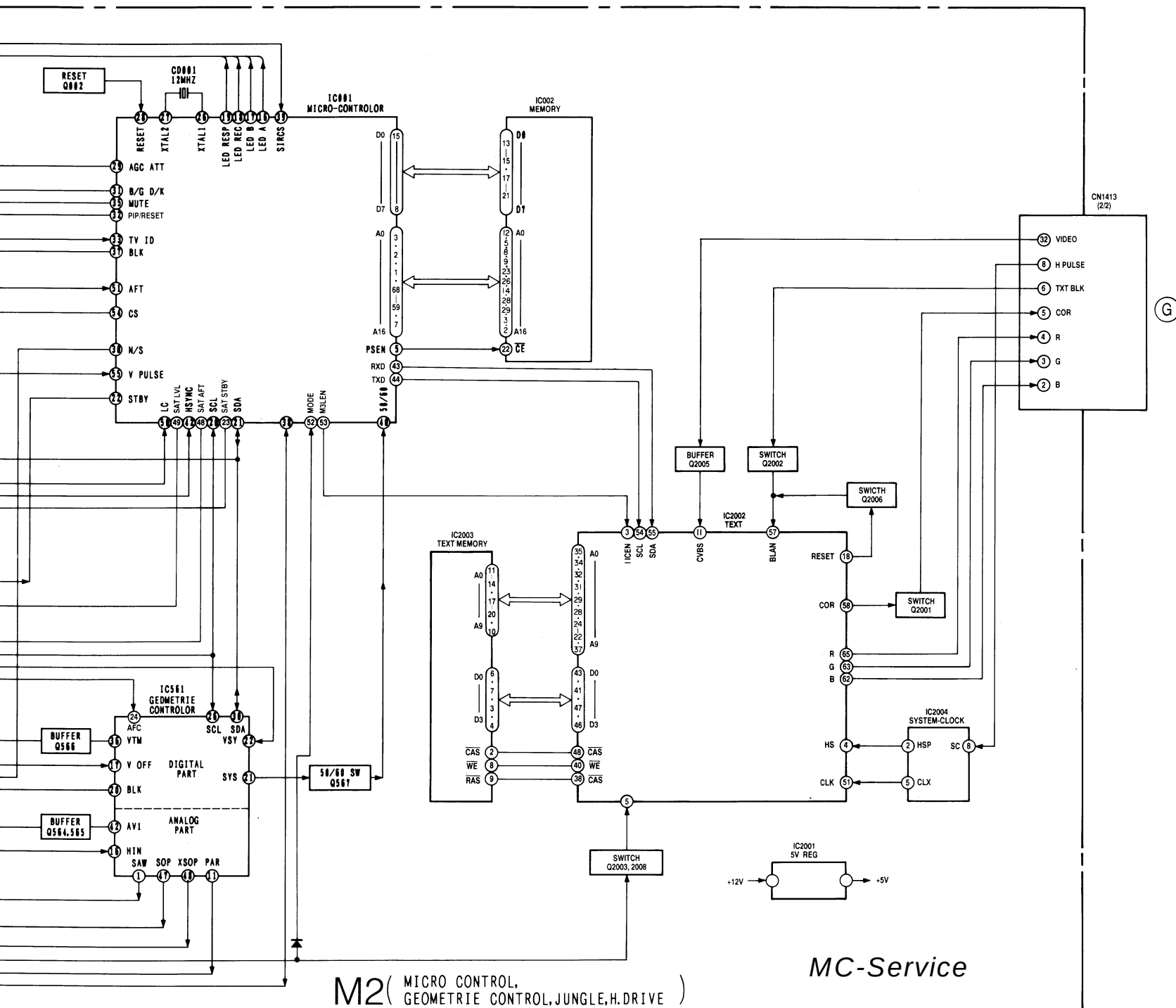


SECTION 5

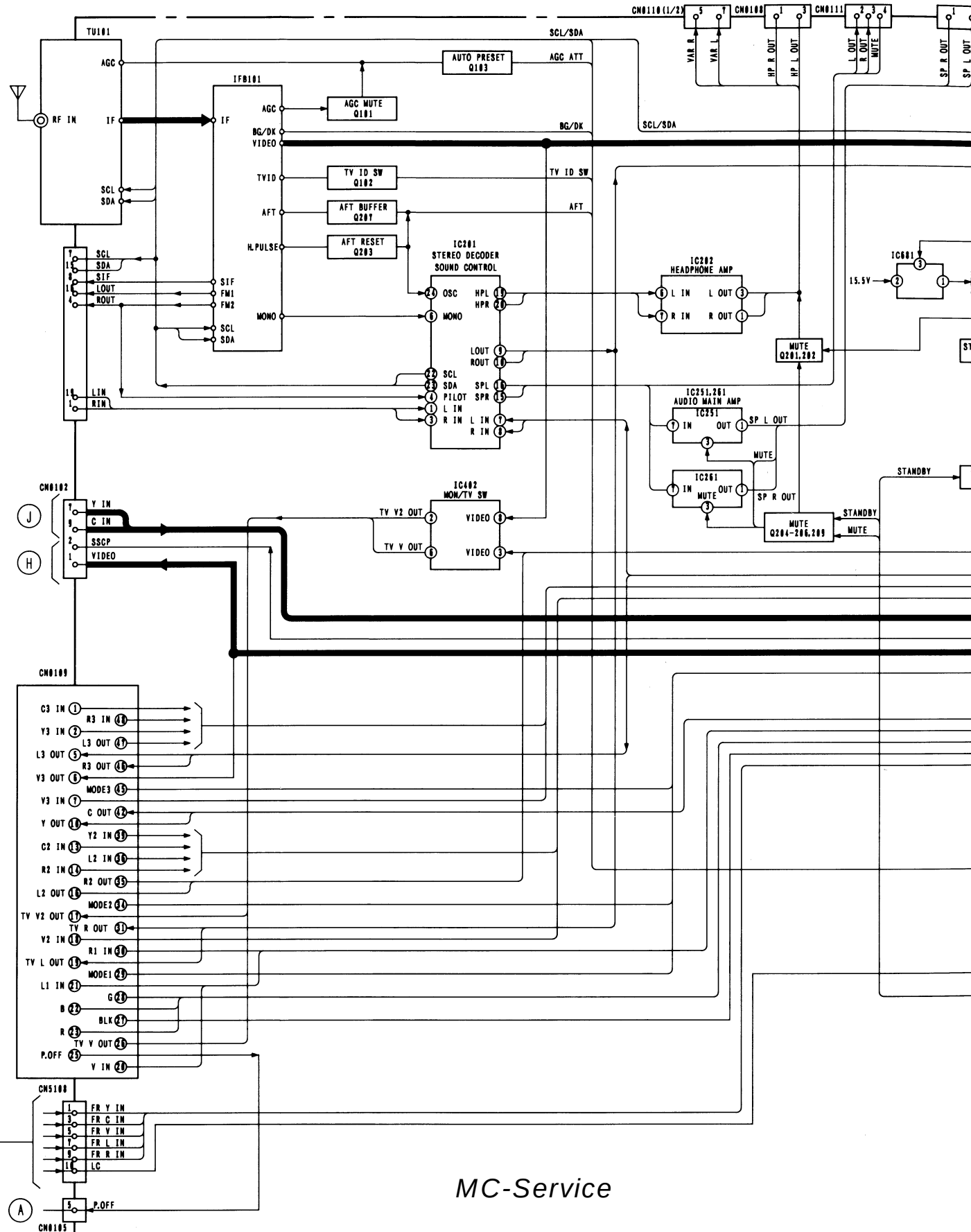
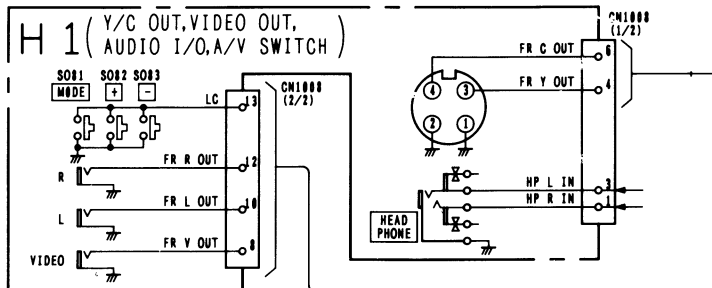
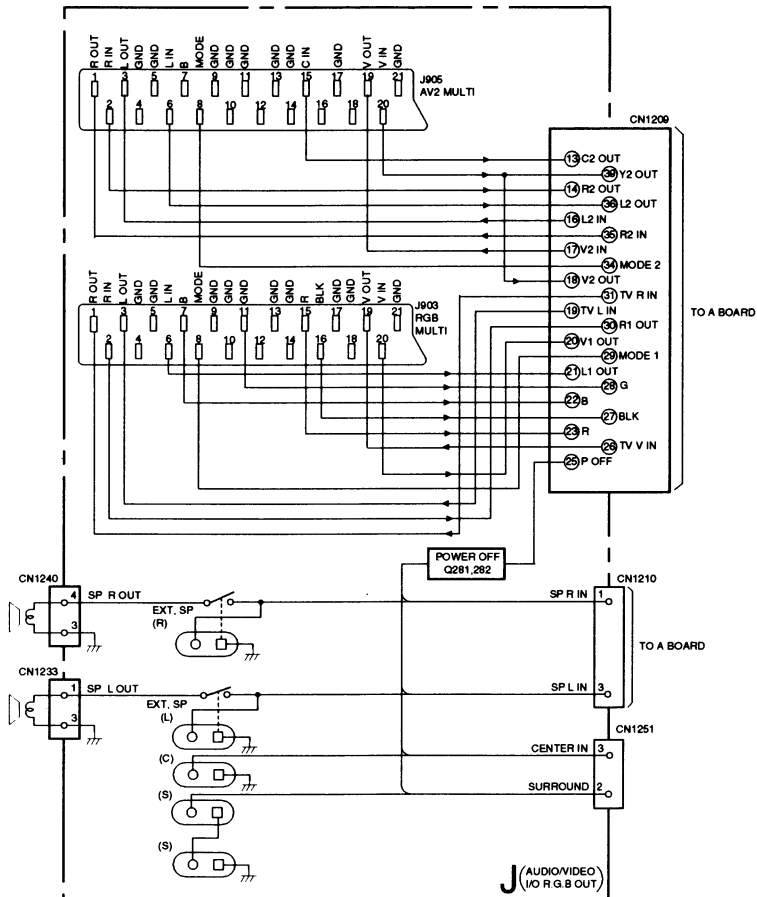
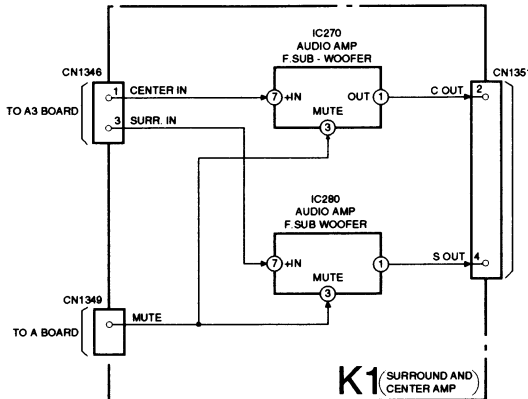
DIAGRAMS



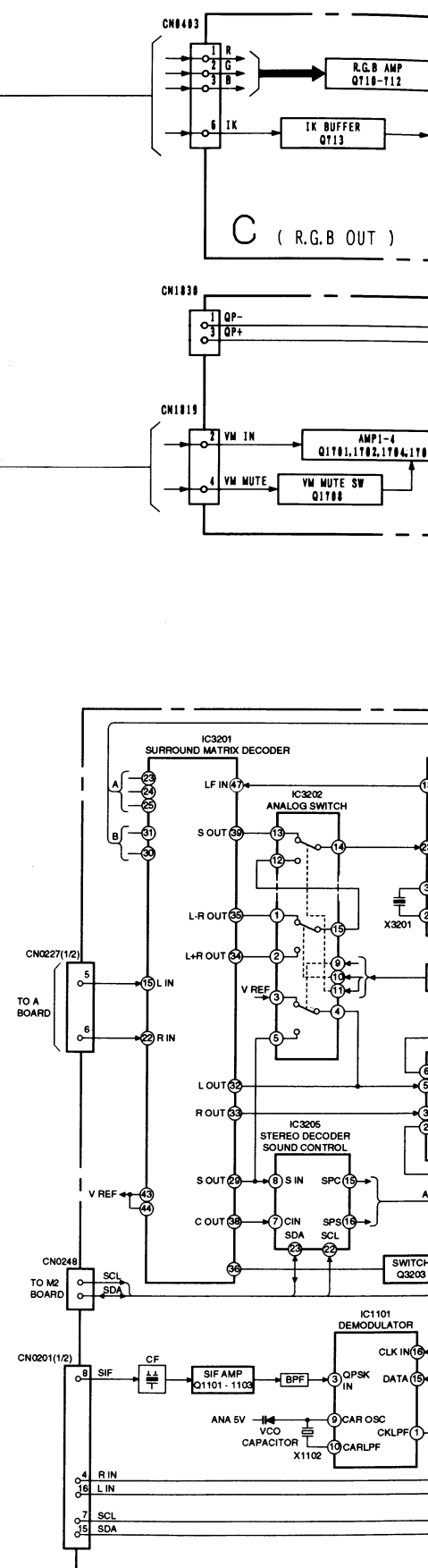


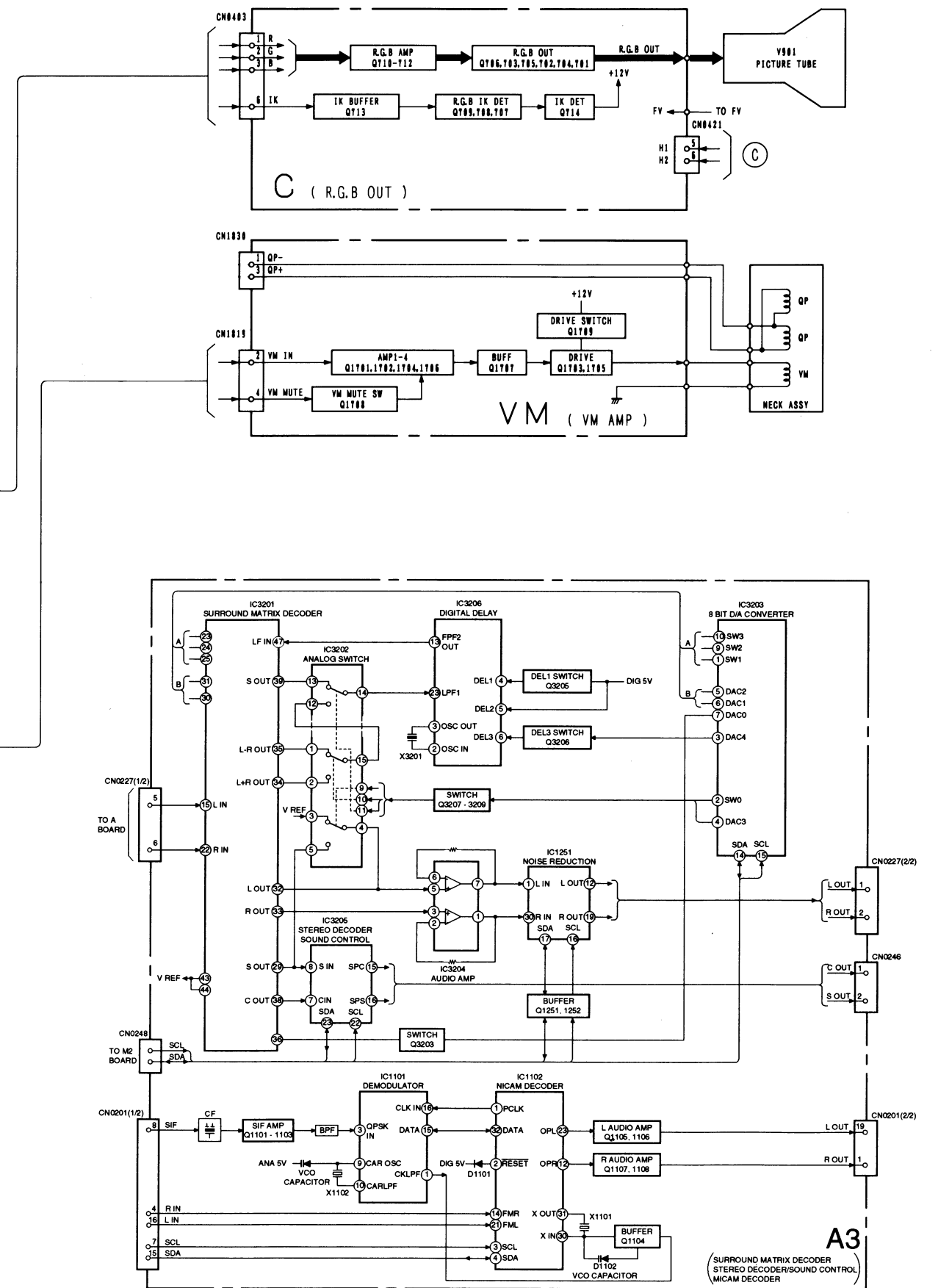
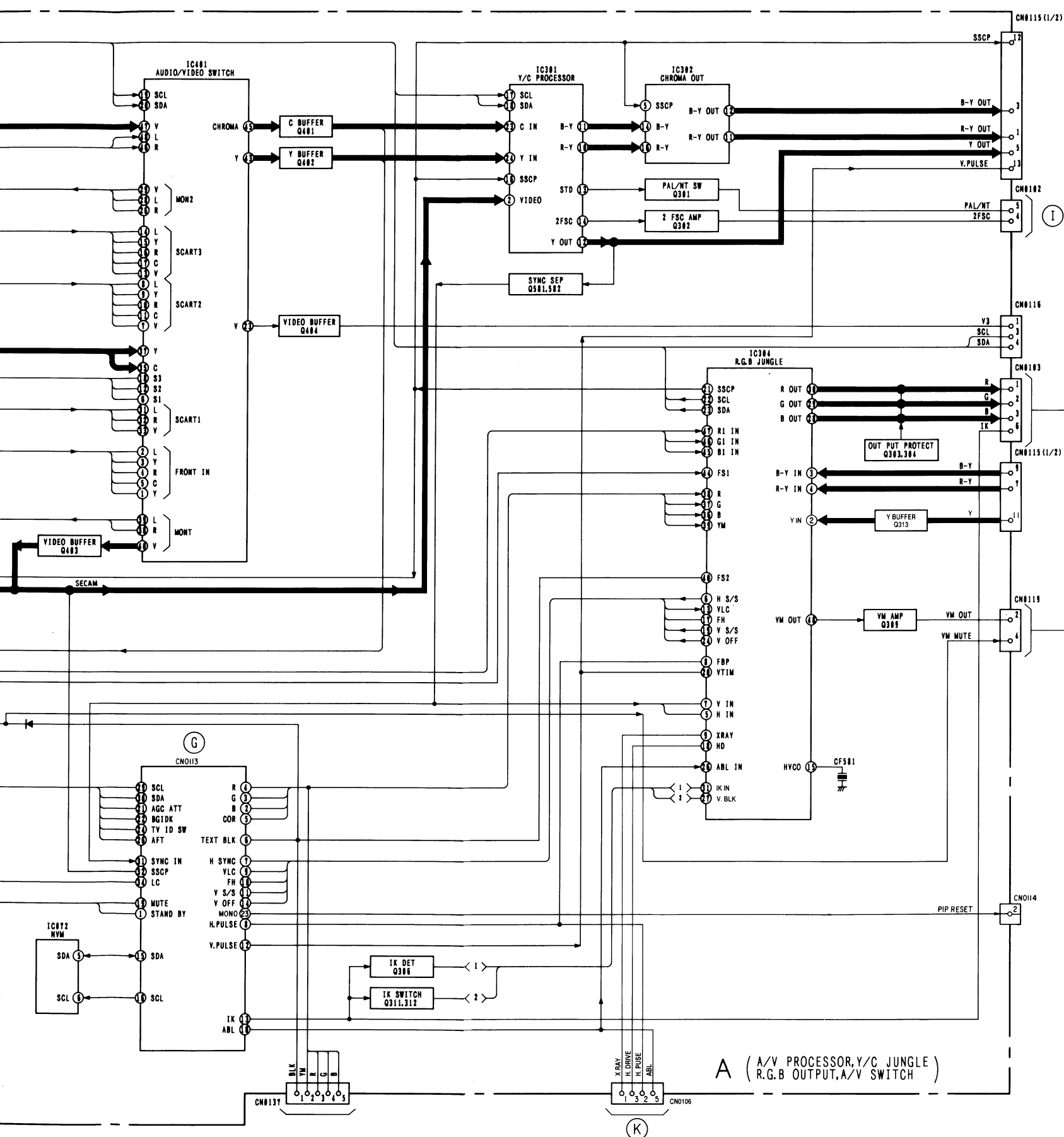


BLOCK DIAGRAM (2)

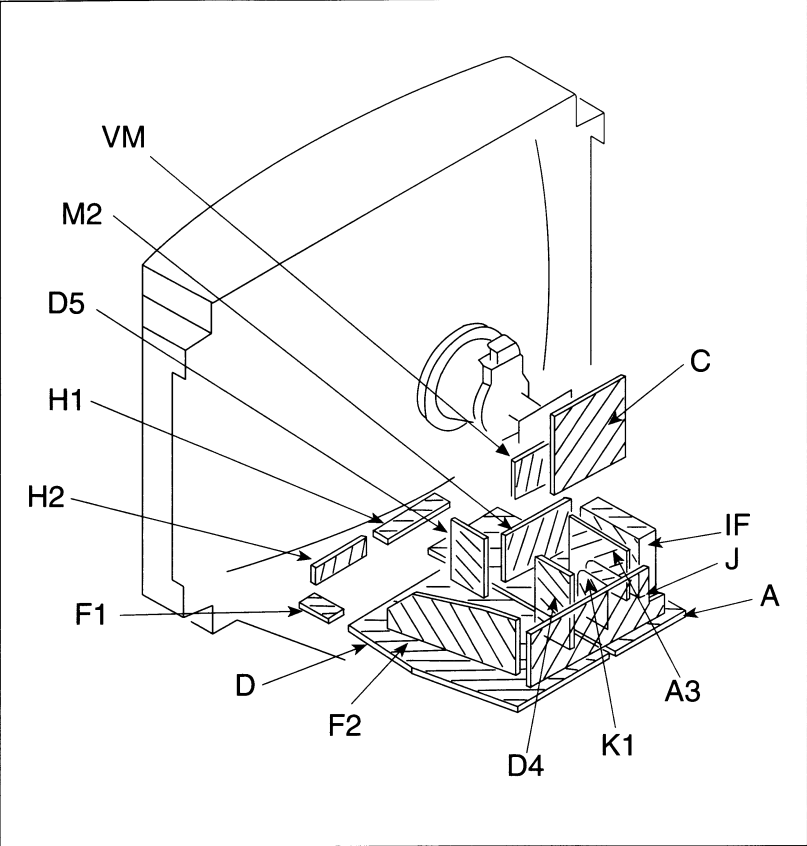


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5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in μF unless otherwise noted.
 μF : $\mu \mu F$ 50WV or less are not indicated except for electrolytic.
 - Indication of resistance, which dose not have one for rating electrical power, is as follows.
- Pitch : 5mm
Rating electrical power : 1/4W
- Chip resistor is in 1/10W.
 - All resistors are in ohms.
 $k \Omega = 1000 \Omega$, $M \Omega = 1000K \Omega$
 - : nonflammable resistor.
 - : fusible resistor.
 - Δ : internal component.
 - : panel designation or adjustment for repair.
 - All variable and adjustable resistors have charactristic curve B, unless otherwise noted.
 - All voltages are in V.
 - Readings are taken with a 10M Ω digital multimeter.
 - Readings are taken with a color-bar signal input.
 - Voltage variations may be noted due to normal production tolerances.

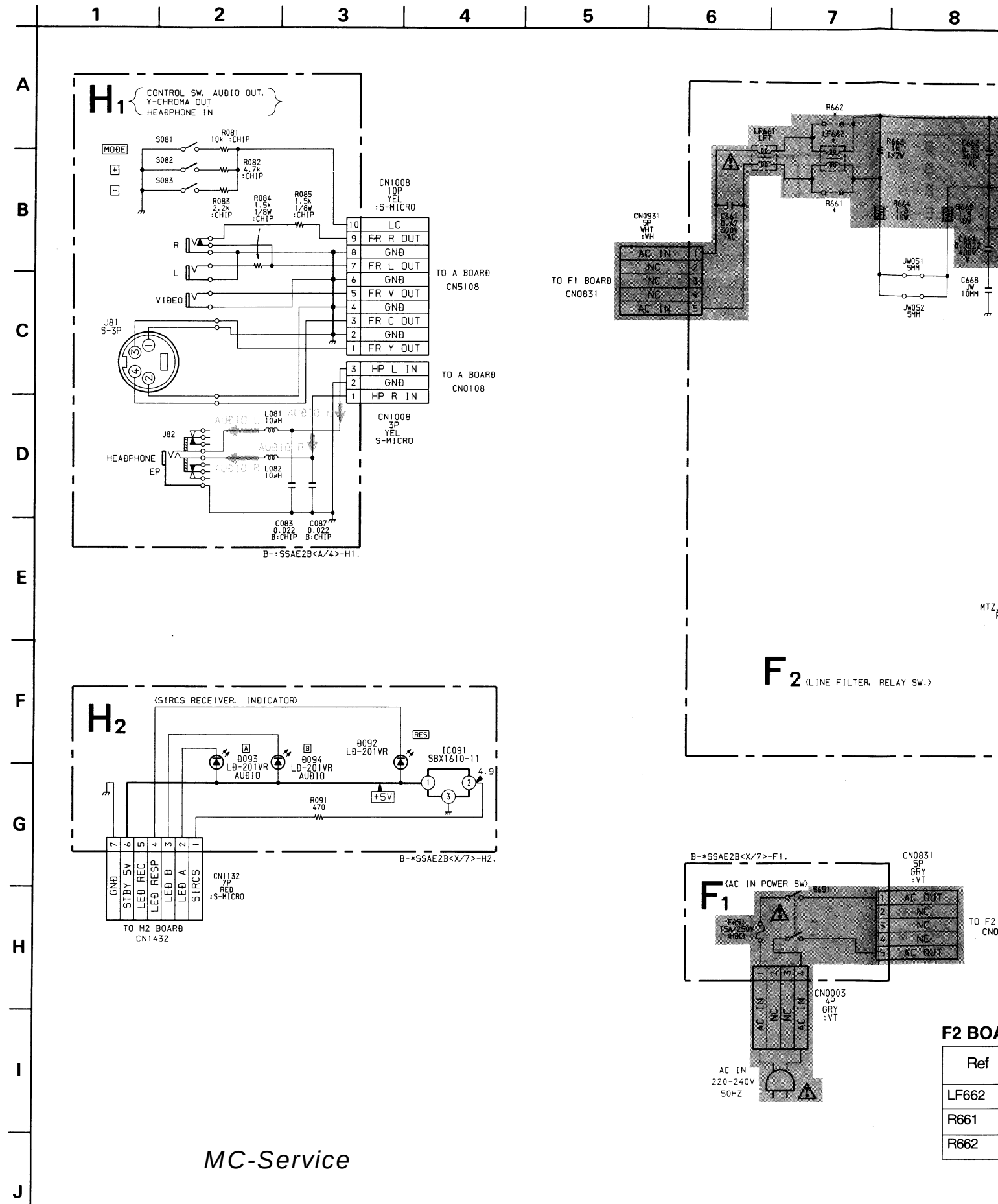
- : B+ bus.
- : B- bus.
- : signal path.(RF)
- : earth - ground
- : earth - chassis

Reference information

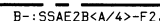
RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NONFLAMMABLE CARBON
	FUSE	: NONFLAMMABLE FUSIBLE
	RS	: NONFLAMMABLE METAL OXIDE
	RB	: NONFLAMMABLE CEMENT
	RW	: NONFLAMMABLE WIREWOUND
	*	: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et par une marque sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.



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A294211

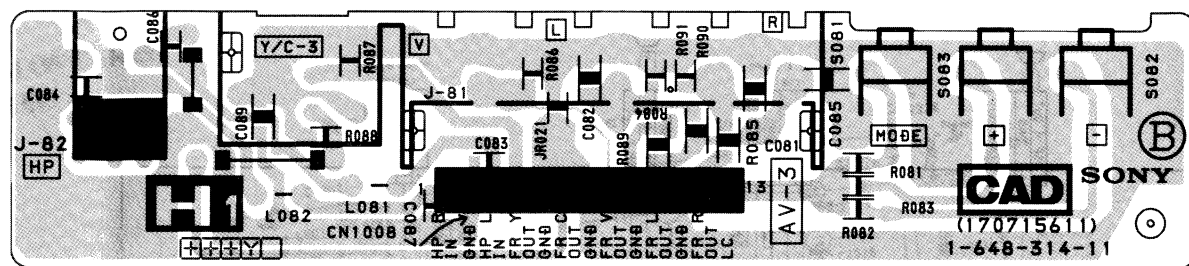
CONTROL SW, AUDIO OUT
Y - CHROMA OUT, HEADPHONE

SIRCS RECEIVER
INDICATOR

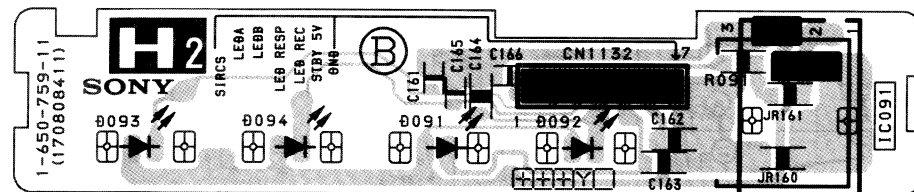
LINE FILTER,
RELAY SW

[AC IN POWER SW]

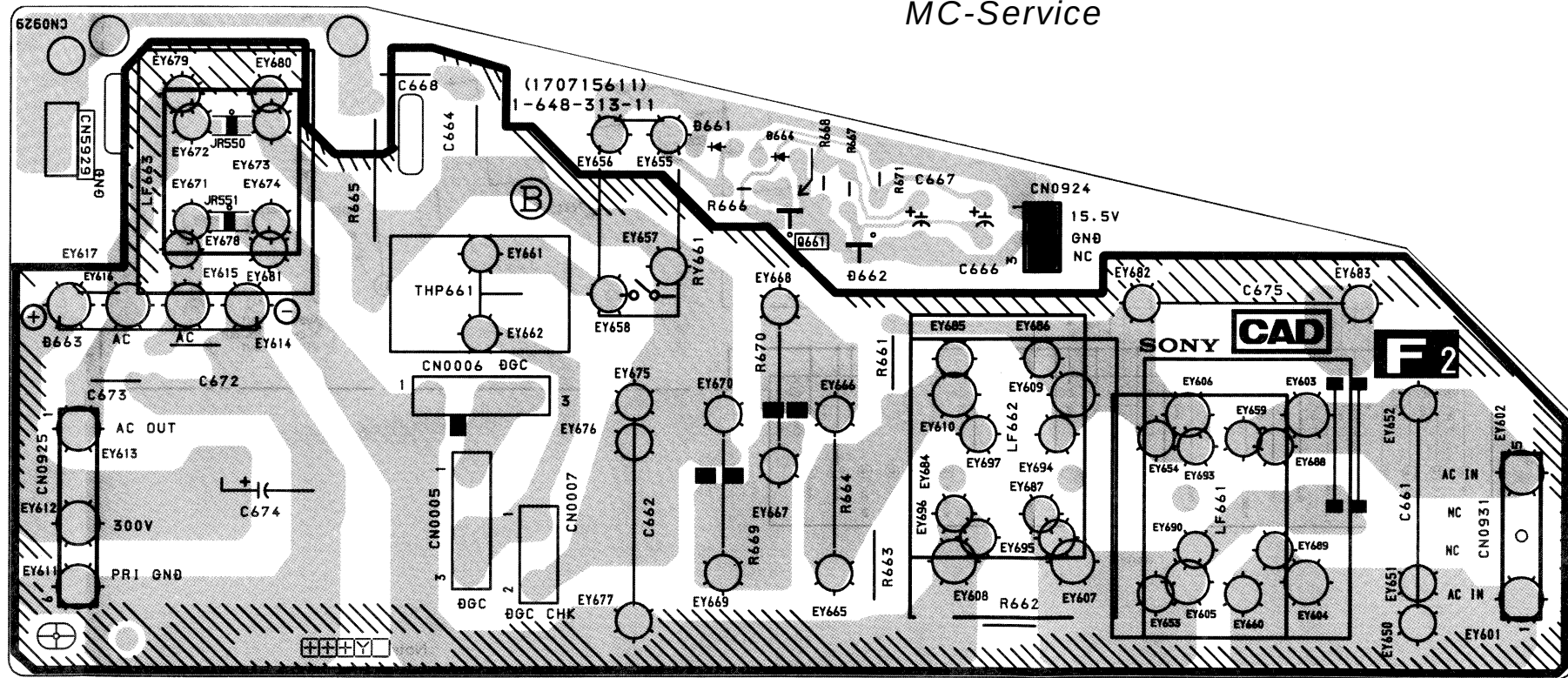
– H1 BOARD –



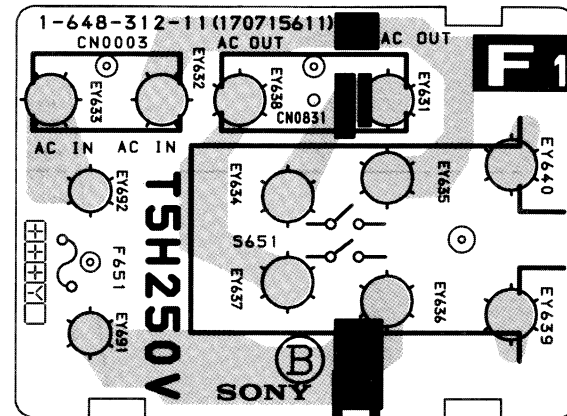
– H2 BOARD –



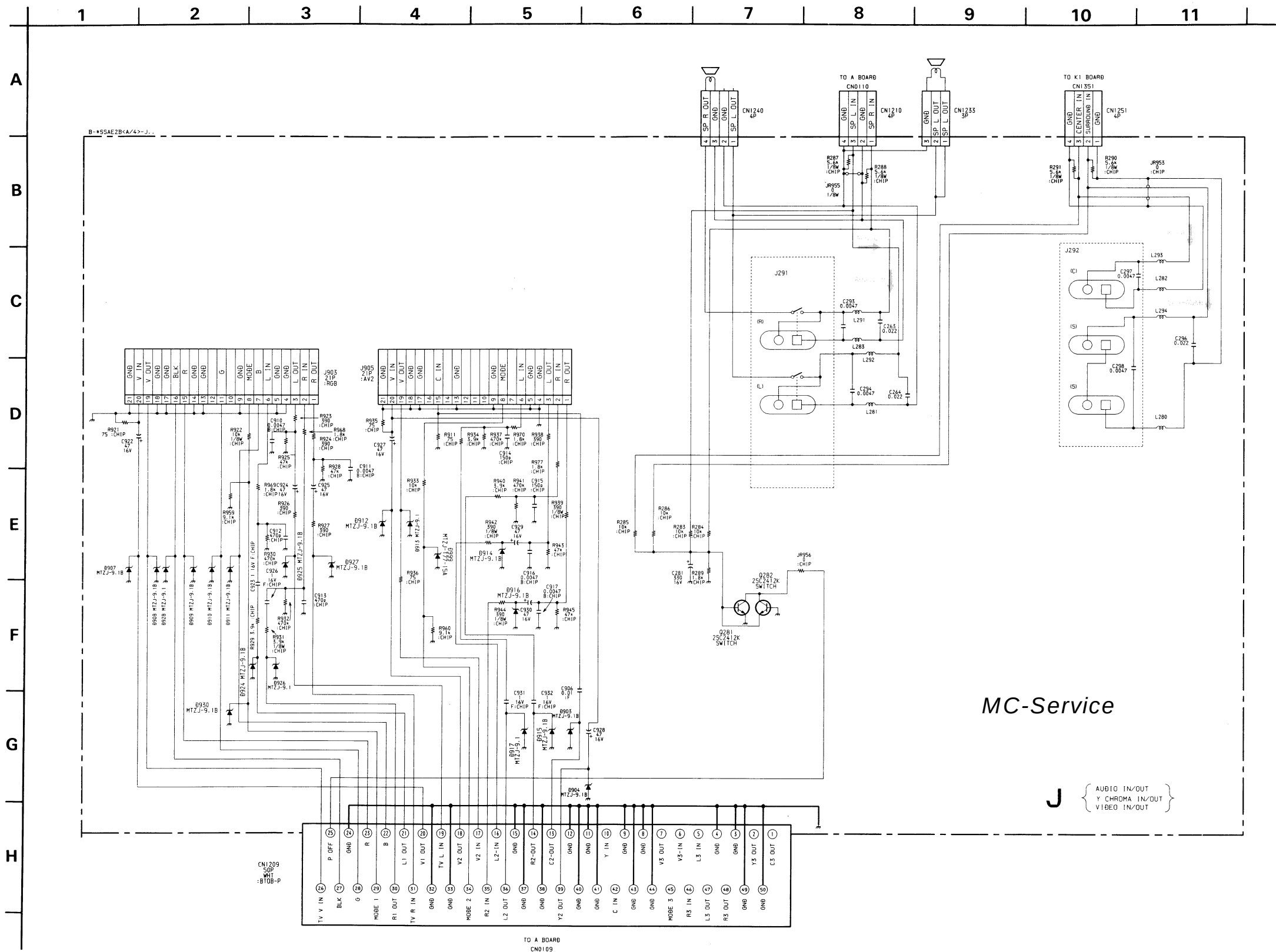
– F2 BOARD –



– F1 BOARD –



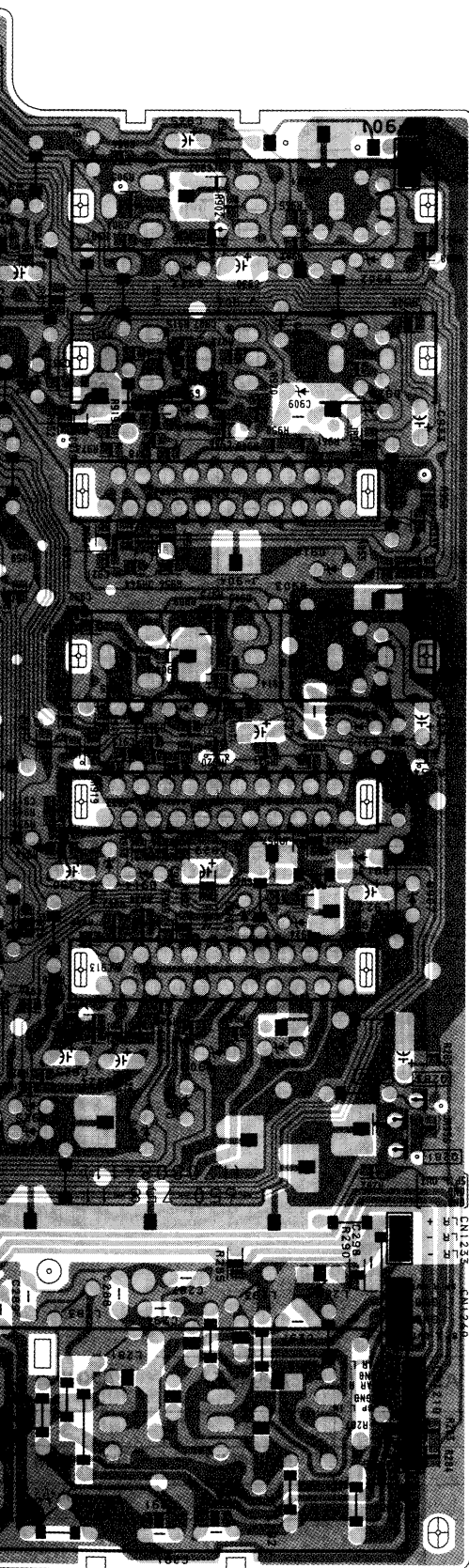
MC-Service



D IN/OUT
HROMA IN/OUT
D IN/OUT

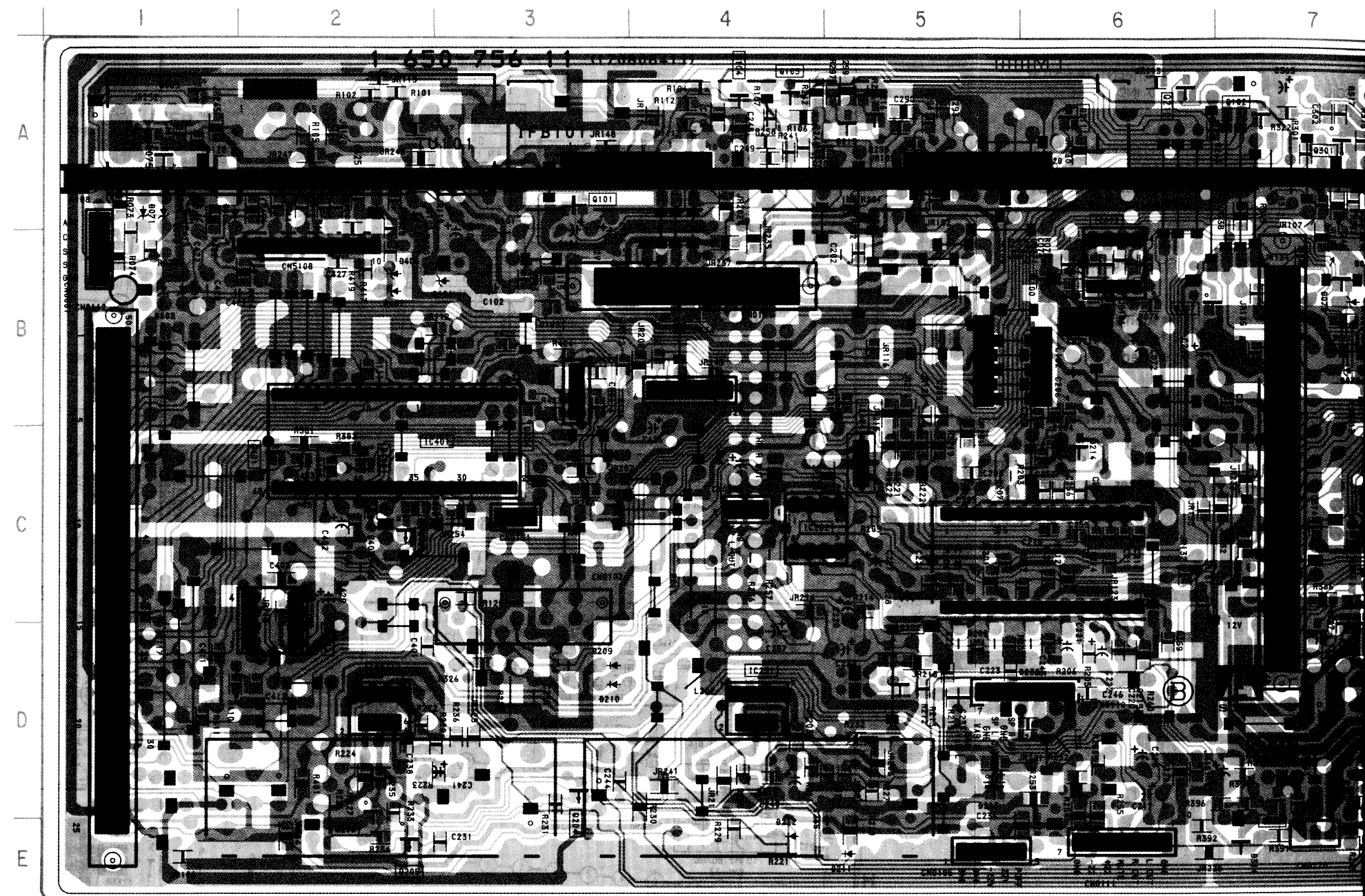
A

TUNER AUDIO CONTROL, AUDIO AMP
AV SW, R.G.B. JUNGLE, Y/C PROCESSOR



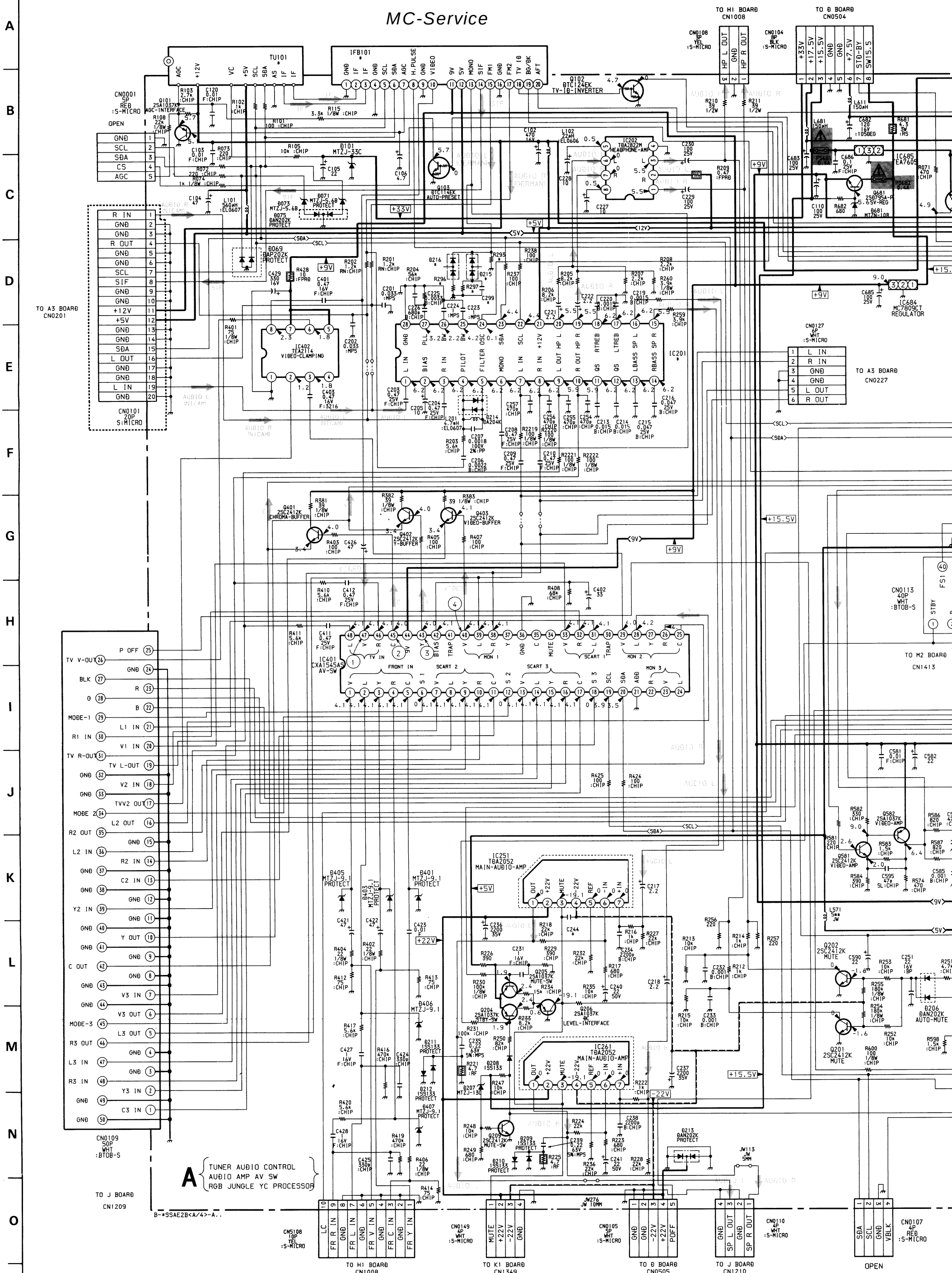
IC		Q404 B - 3	
IC072	B - 6	Q581	B - 9
IC201	C - 6	Q582	B - 9
IC202	C - 4	Q610	E - 9
IC251	D - 4	Q681	E - 7
IC261	D - 2	Q682	D - 9
IC301	A - 8	DIODE	
IC302	A - 10		
IC304	C - 10	D068	B - 7
IC401	C - 2	D069	A - 1
IC402	D - 2	D071	A - 1
IC681	D - 9	D073	A - 1
IC684	C - 4	D075	A - 1
IC685	E - 8	D077	B - 7
TRANSISTOR		D078	B - 7
Q071	D - 8	D079	B - 7
Q101	A - 3	D101	B - 2
Q102	A - 7	D206	D - 7
Q103	A - 3	D207	E - 7
Q201	D - 5	D208	D - 7
Q202	D - 5	D209	D - 3
Q203	A - 4	D210	D - 3
Q204	D - 3	D211	E - 5
Q205	E - 2	D212	E - 4
Q206	D - 2	D213	D - 5
Q207	B - 6	D214	C - 6
Q209	E - 7	D301	B - 9
Q210	A - 6	D302	A - 9
Q301	A - 7	D304	B - 10
Q302	B - 7	D305	C - 9
Q303	D - 10	D306	D - 10
Q304	D - 10	D307	D - 10
Q305	A - 8	D308	D - 10
Q306	D - 10	D311	C - 9
Q308	C - 9	D312	C - 8
Q309	C - 9	D313	C - 7
Q311	C - 8	D381	C - 8
Q312	C - 8	D401	B - 1
Q313	B - 8	D403	B - 1
Q314	C - 7	D405	A - 1
Q315	D - 7	D406	B - 2
Q401	C - 2	D407	B - 2
Q402	C - 2	D571	B - 9
Q403	C - 2	D681	E - 8
		D683	D - 9

- A BOARD -

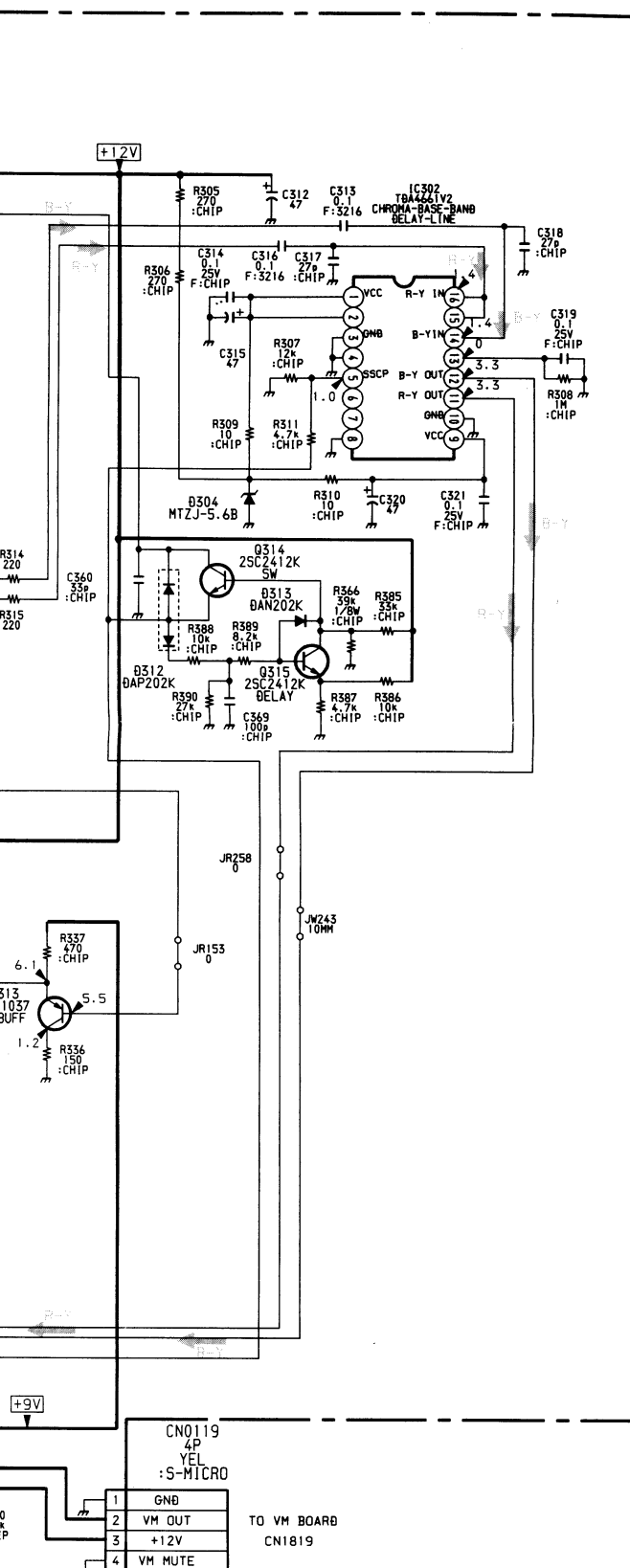


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[illegible]



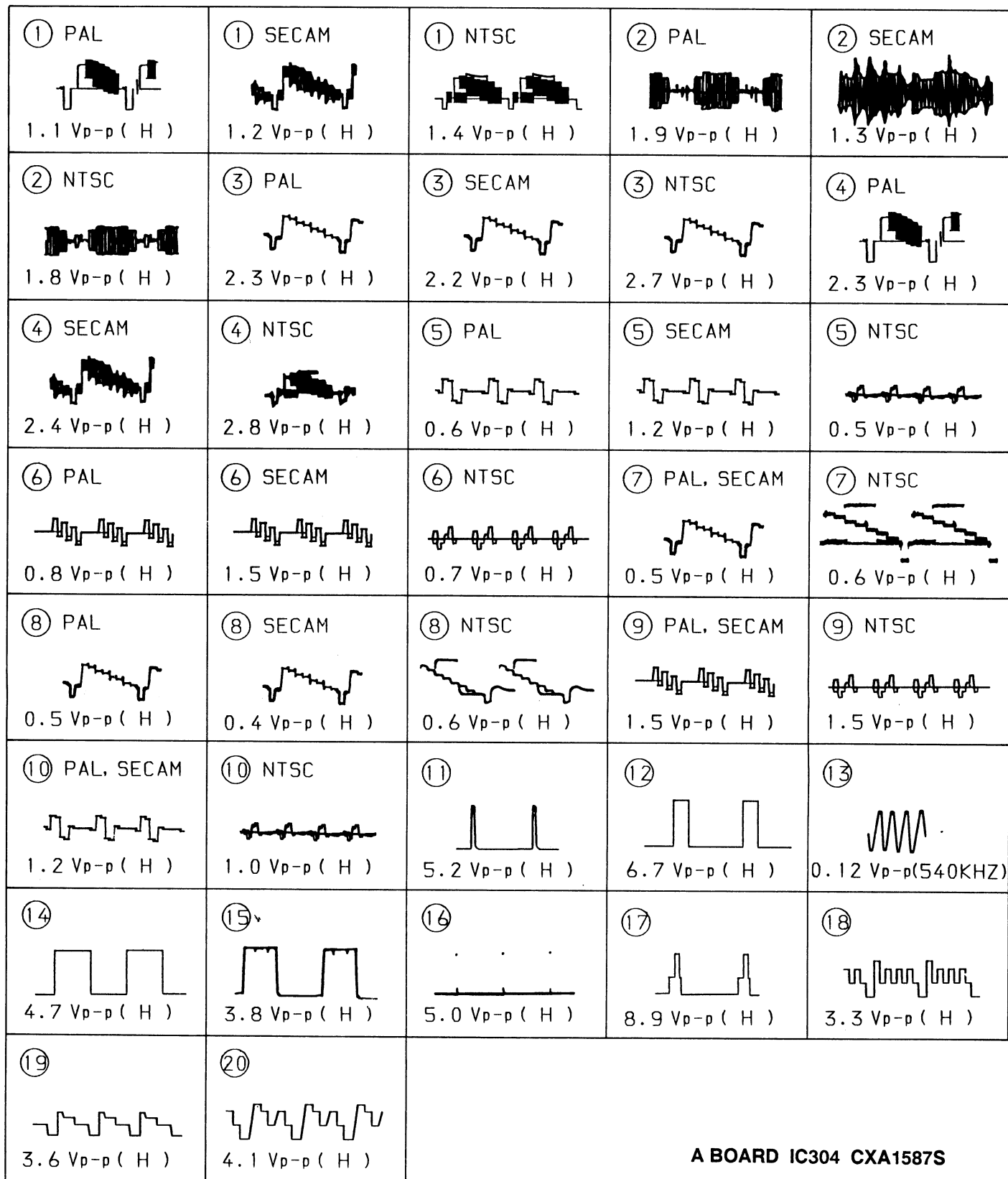
Voltages indicated with the mark ※ on the schematic diagram are shown in the table below.

A BOARD

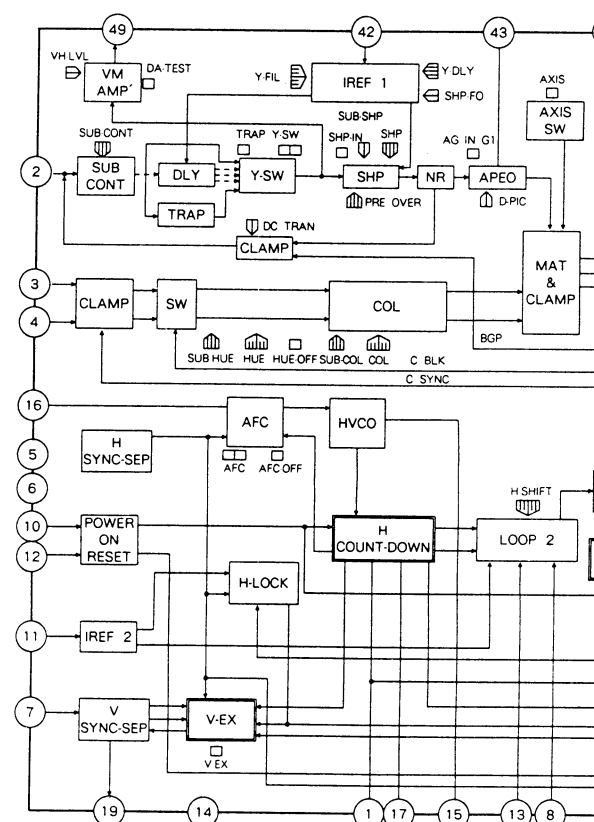
	PAL	SECAM	NTSC3.58	NTSC4.43
IC301 (13)	0.0	0.0	4.8	4.9
(15)	0.0	5.0	5.0	0.0
(17)	4.7	4.2	3.6	4.1
(18)	4.8	4.4	4.6	4.8
Q301(B)	0.0	0.0	0.0	1.6
(C)	5.5	5.5	5.5	0.1
Q305(B)	0.0	5.5	5.5	0.0
(C)	0.0	0.0	0.0	1.6

A BOARD * MARK

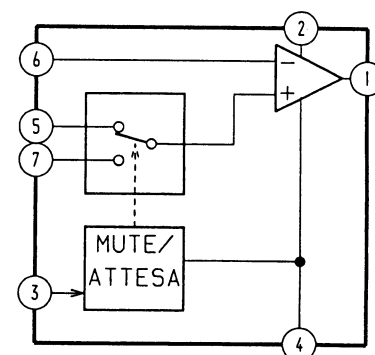
Ref	A2941A	A2941B	A2941D	A2943E	A2941K	A2942U
C244	1MF	1MF	1MF	1MF	1MF	0.01MF
C299	2.2MF	1MF	2.2MF	2.2MF	2.2MF	2.2MF
C333	-	470PF	-	-	-	-
D215	-	DAN204K	-	-	-	-
D216	-	DAN204K	-	-	-	-
IC201	TDA6612	TDA6612	TDA6612	TDA6612	TDA6612	TDA6622
IFB101	IFH-389	IFH-389F	IFH-389	IFH-389	IFH-389	IFH-395
R293	-	12K	-	-	-	-
R296	-	330	-	-	-	-
R297	-	120	-	-	-	-
R326	-	0	-	-	-	-
TU101	UV916H	UV916H	UV916H	UV916H	UV916H	U944C



A BOARD IC304 CXA1587S



A BOARD IC251/261 TDA2052



RMS A BOARD

L -p (H)	① SECAM 1.2 Vp-p (H)	① NTSC 1.4 Vp-p (H)	② PAL 1.9 Vp-p (H)	② SECAM 1.3 Vp-p (H)
SC -p (H)	③ PAL 2.3 Vp-p (H)	③ SECAM 2.2 Vp-p (H)	③ NTSC 2.7 Vp-p (H)	④ PAL 2.3 Vp-p (H)
CAM -p (H)	④ NTSC 2.8 Vp-p (H)	⑤ PAL 0.6 Vp-p (H)	⑤ SECAM 1.2 Vp-p (H)	⑤ NTSC 0.5 Vp-p (H)
L -p (H)	⑥ SECAM 1.5 Vp-p (H)	⑥ NTSC 0.7 Vp-p (H)	⑦ PAL, SECAM 0.5 Vp-p (H)	⑦ NTSC 0.6 Vp-p (H)
L -p (H)	⑧ SECAM 0.4 Vp-p (H)	⑧ NTSC 0.6 Vp-p (H)	⑨ PAL, SECAM 1.5 Vp-p (H)	⑨ NTSC 1.5 Vp-p (H)
AL, SECAM -p (H)	⑩ NTSC 1.0 Vp-p (H)	⑪ 5.2 Vp-p (H)	⑫ 6.7 Vp-p (H)	⑬ 0.12 Vp-p(540KHZ)
-p (H)	⑮ 3.8 Vp-p (H)	⑯ 5.0 Vp-p (H)	⑰ 8.9 Vp-p (H)	⑱ 3.3 Vp-p (H)
-p (H)	⑳ 4.1 Vp-p (H)			

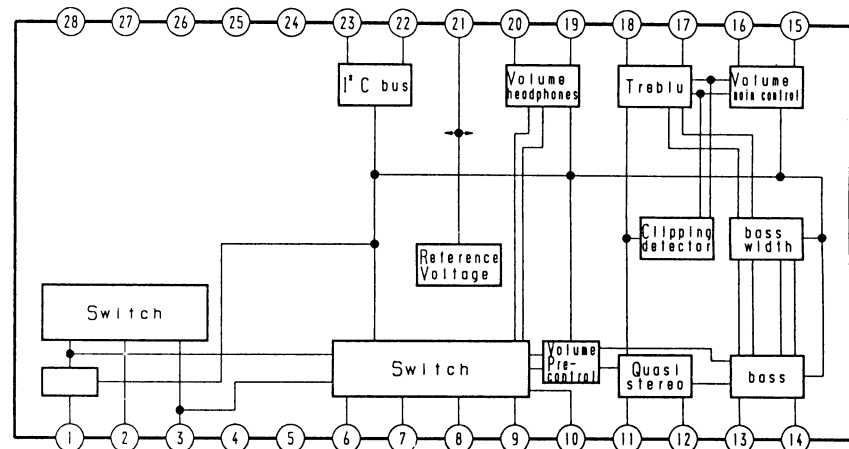
indicated with the mark ※
Schematic diagram are shown
e below.

PAL	SECAM	NTSC3.58	NTSC4.43
0.0	0.0	4.8	4.9
0.0	5.0	5.0	0.0
4.7	4.2	3.6	4.1
4.8	4.4	4.6	4.8
0.0	0.0	0.0	1.6
5.5	5.5	5.5	0.1
0.0	5.5	5.5	0.0
0.0	0.0	0.0	1.6

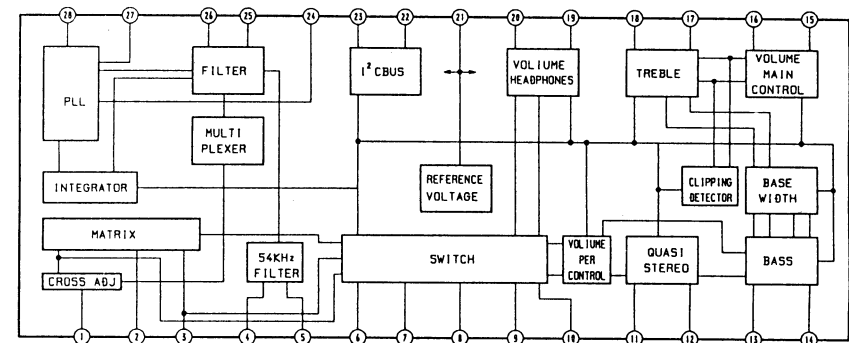
A2941B	A2941D	A2943E	A2941K	A2942U
1MF	1MF	1MF	1MF	0.01MF
1MF	2.2MF	2.2MF	2.2MF	2.2MF
470PF	-	-	-	-
DAN204K	-	-	-	-
DAN204K	-	-	-	-
TDA6612	TDA6612	TDA6612	TDA6612	TDA6622
IFH-389F	IFH-389	IFH-389	IFH-389	IFH-395
12K	-	-	-	-
330	-	-	-	-
120	-	-	-	-
0	-	-	-	-
UV916H	UV916H	UV916H	UV916H	U944C

MC-Service

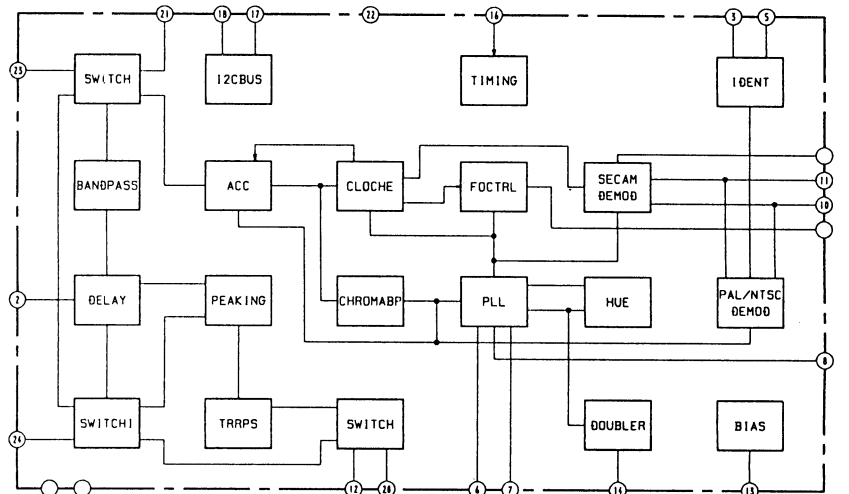
A BOARD IC201 TDA6622 (UK Model only)



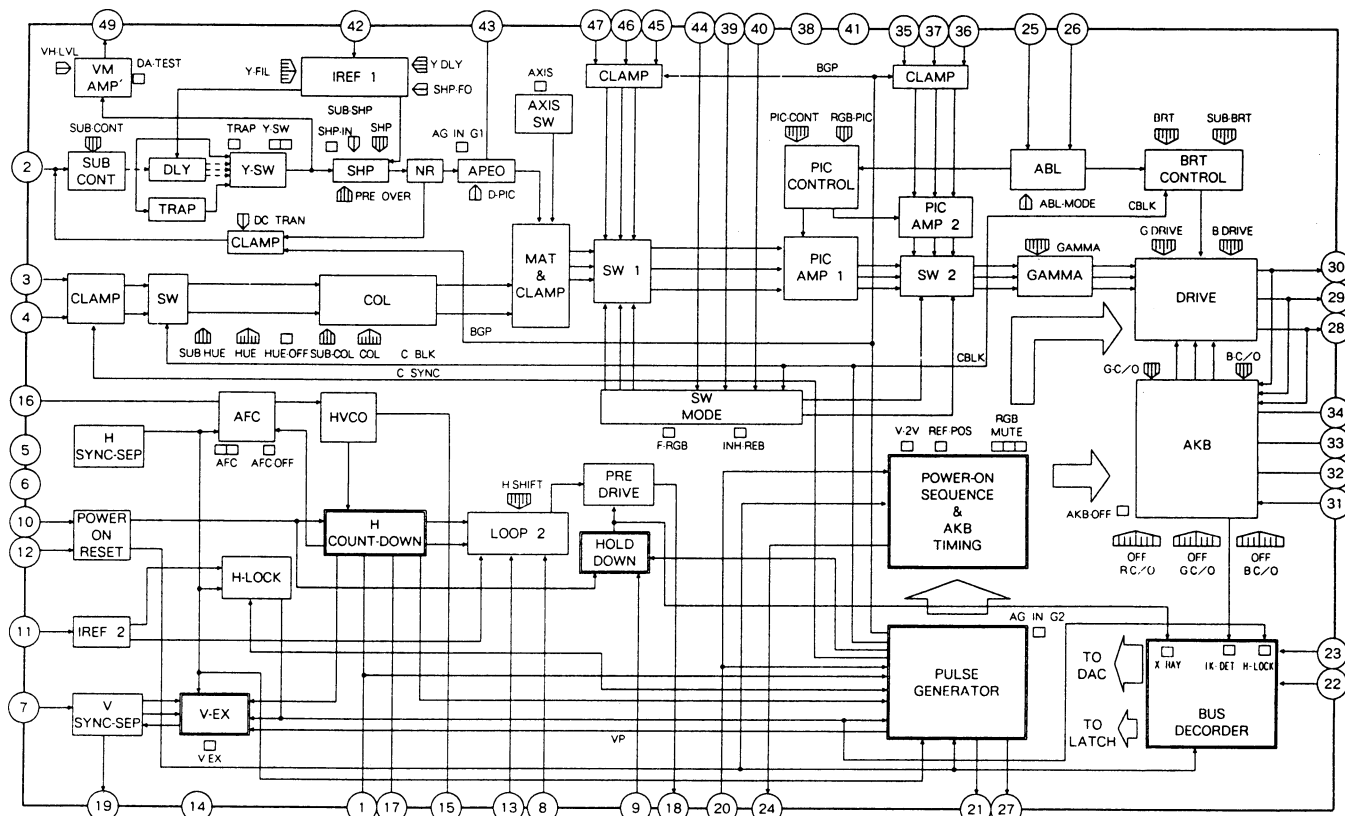
A BOARD IC201 TDA6612



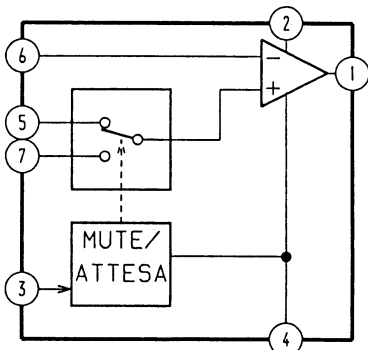
A BOARD IC301 TDA9145/N2B



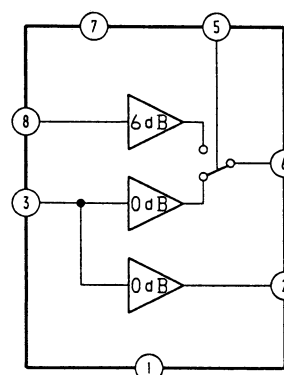
A BOARD IC304 CXA1587S



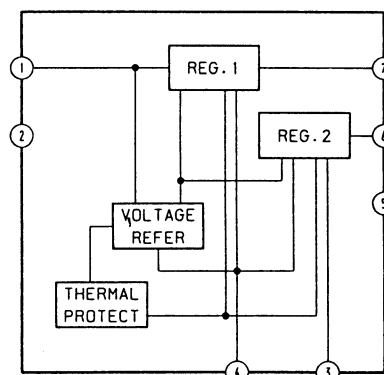
A BOARD IC251/261 TDA2052



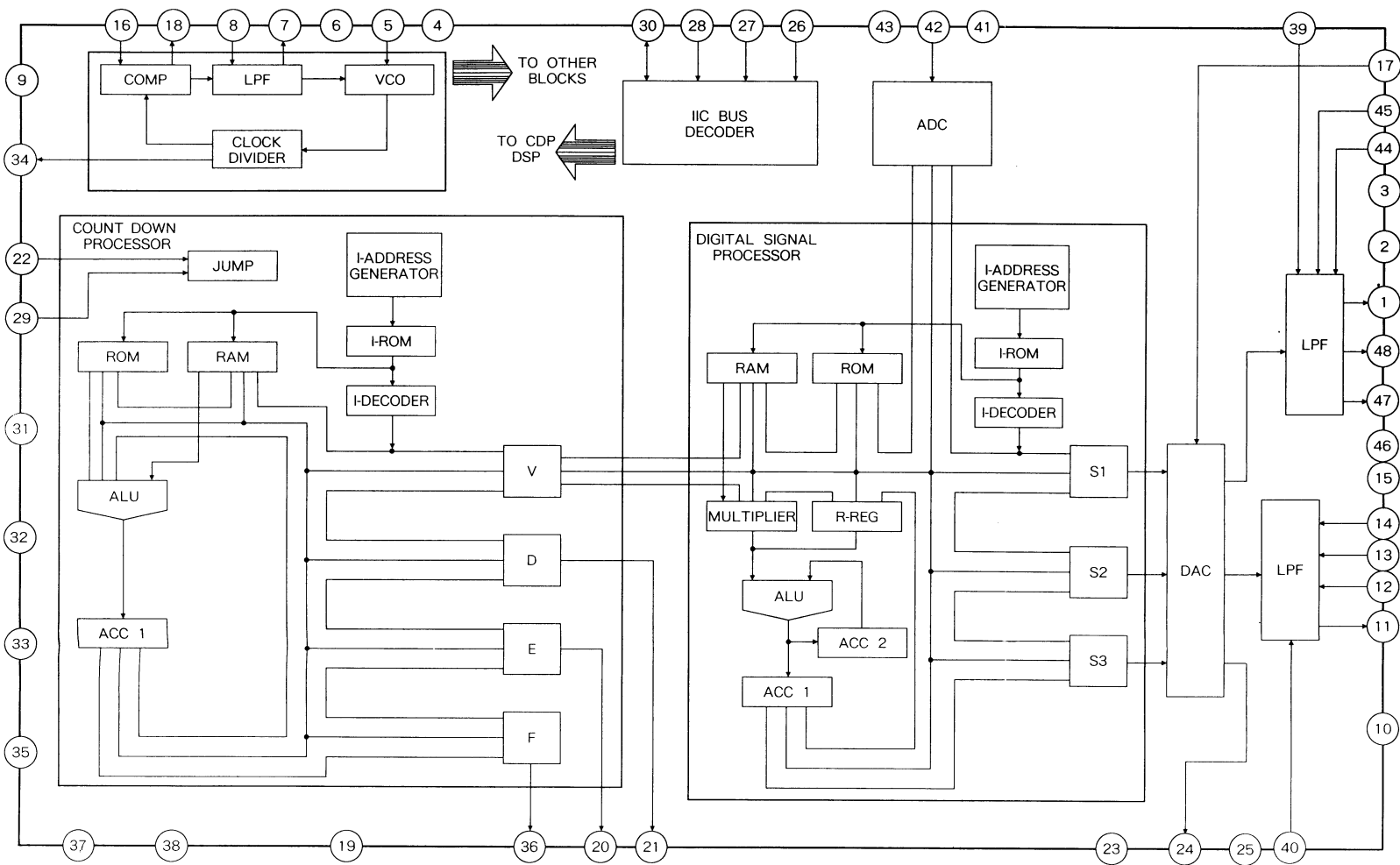
A BOARD IC402 TEA2114



A BOARD IC681 TDA8138A

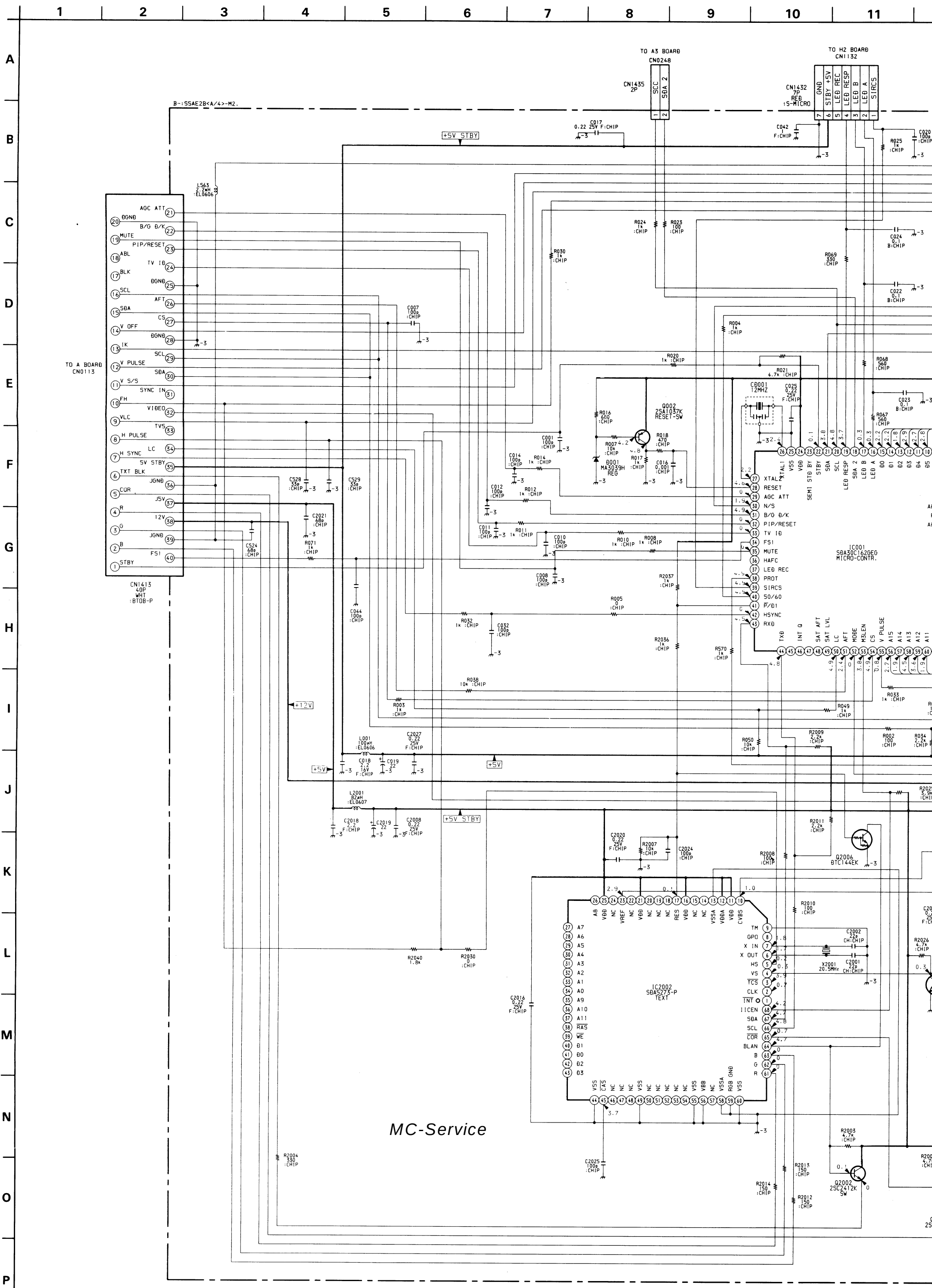


M2 BOARD IC561 CXD2018Q

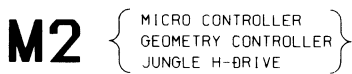


MC-Service

TO A BOARD
CN0113



MC-Service



 DIGITAL GND
(CX02018Q)
 -2 ANALOG GND
(CX02018)
 -3 MICR-CONTR. GND
(SBA30C162)

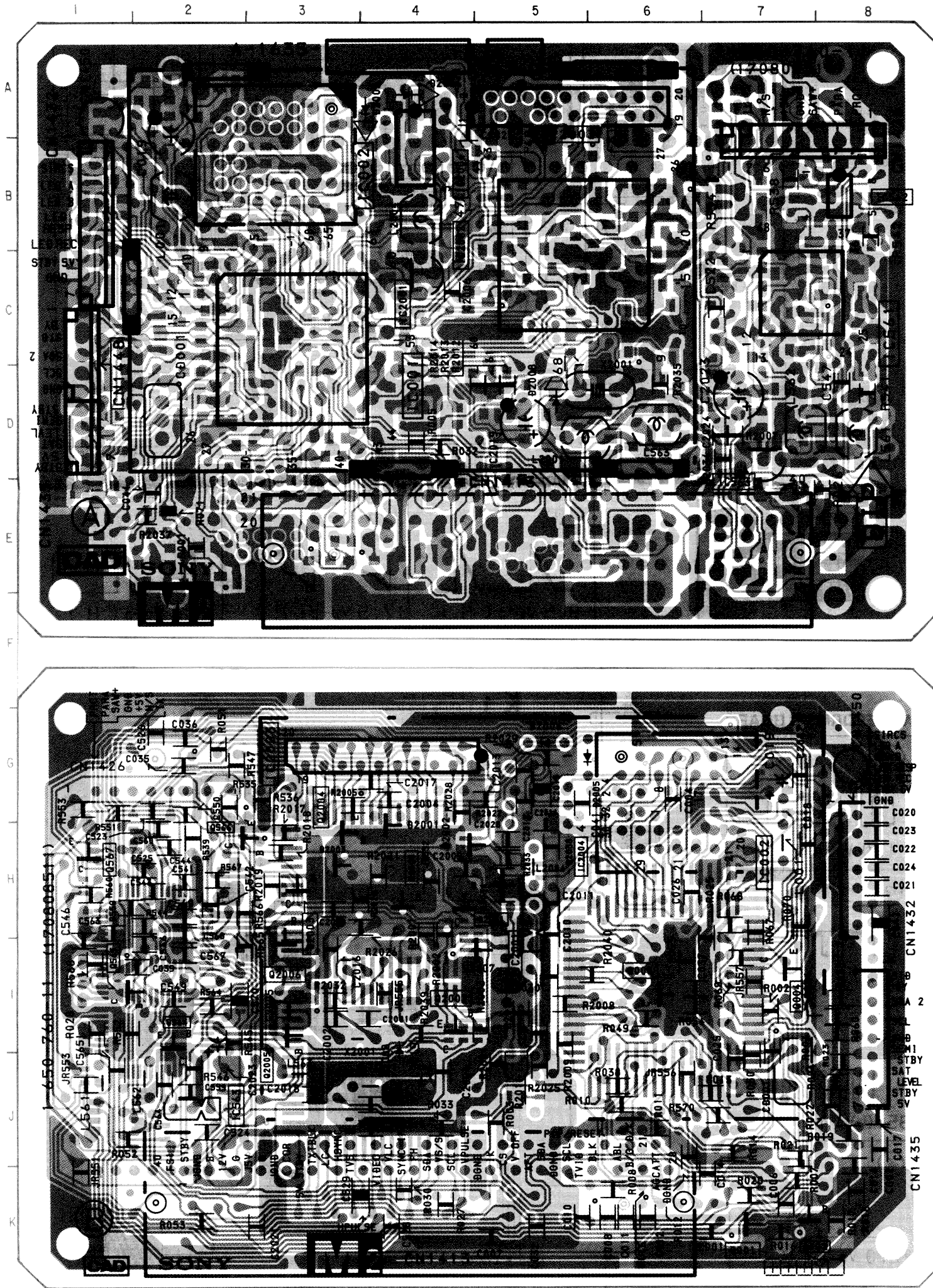
M2

MICRO CONTROLLER,
GEOMETRY CONTROLLER,
JUNGLE, H - DRIVE

D

H/V OUT, PIN OUT,
POWER SUPPLY

- M2 BOARD -



IC	
IC001	C - 4
IC002	B - 3, H - 7
IC561	C - 8
IC562	B - 8
IC563	D - 7, J - 3
IC2001	C - 4, I - 5
IC2002	C - 5
IC2003	B - 5, G - 3
IC2004	B - 4, H - 5

TRANSISTOR	
Q002	K - 7
Q003	I - 6
Q564	I - 2
Q565	I - 1
Q566	G - 2
Q567	H - 1
Q2001	H - 5
Q2002	I - 4
Q2003	H - 3
Q2005	J - 3
Q2006	I - 3
Q2008	H - 4

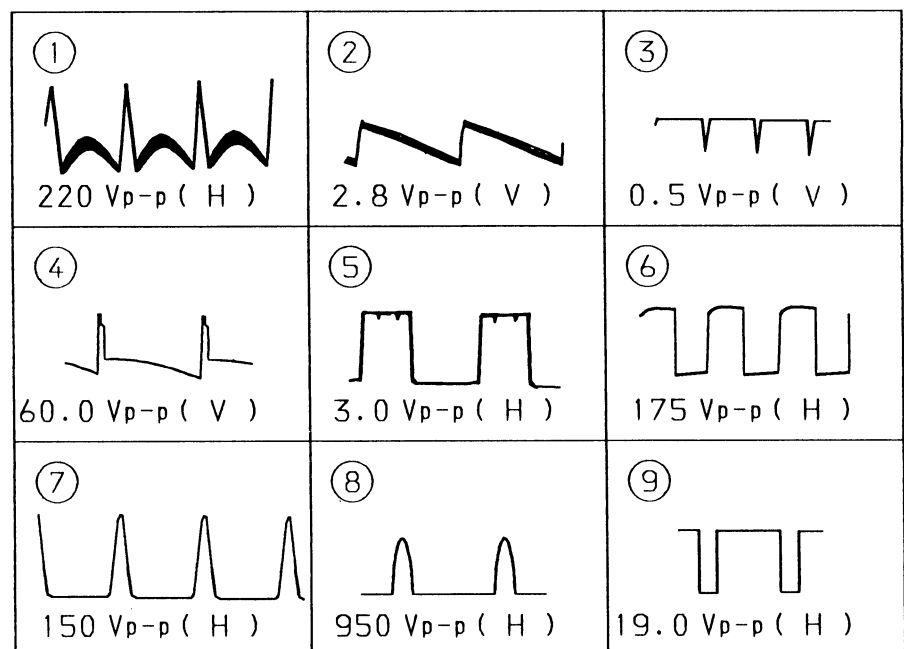
DIODE	
D001	K - 7
D2001	G - 4
D2002	H - 4
D2003	H - 3

MC-Service

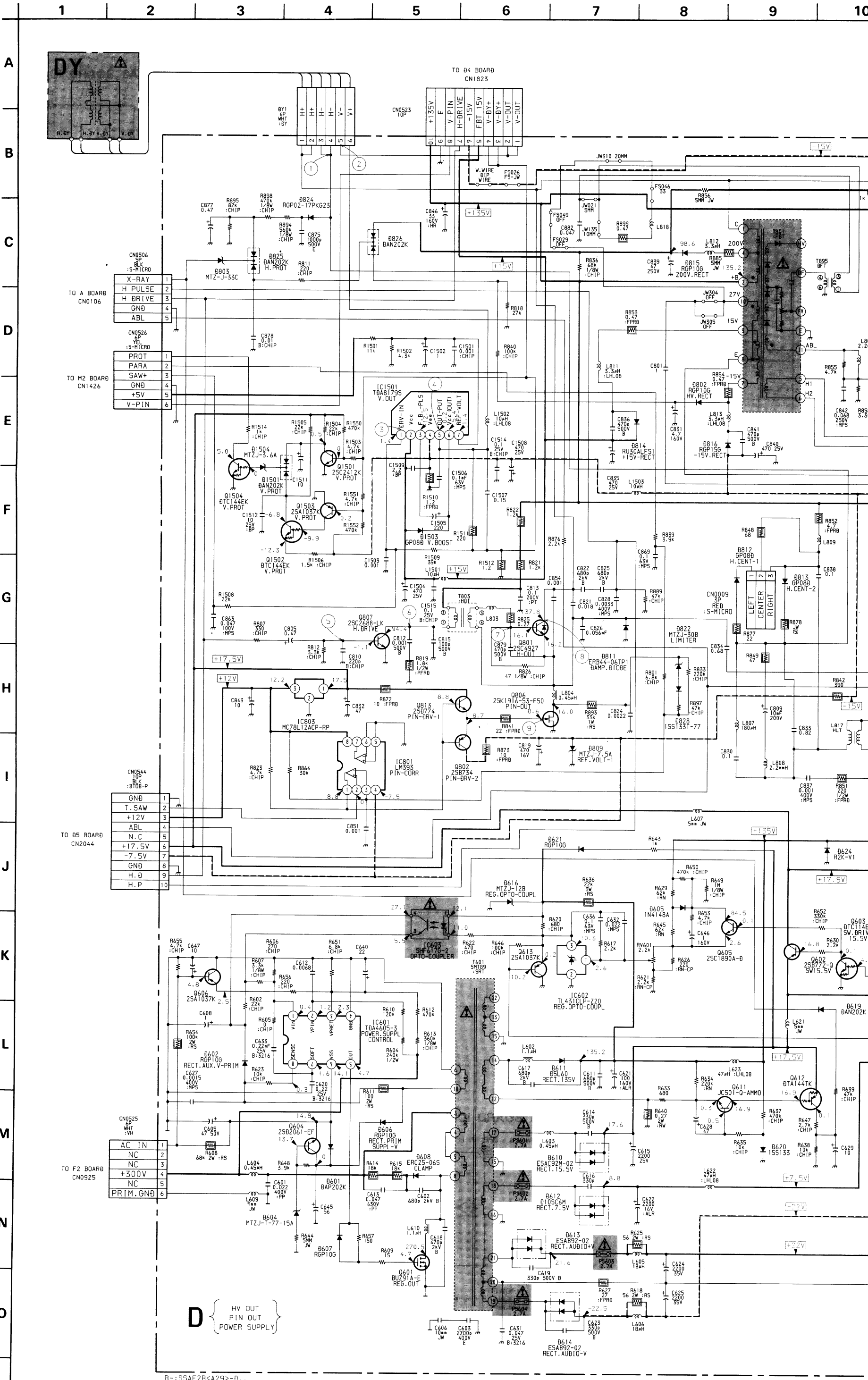
Note :

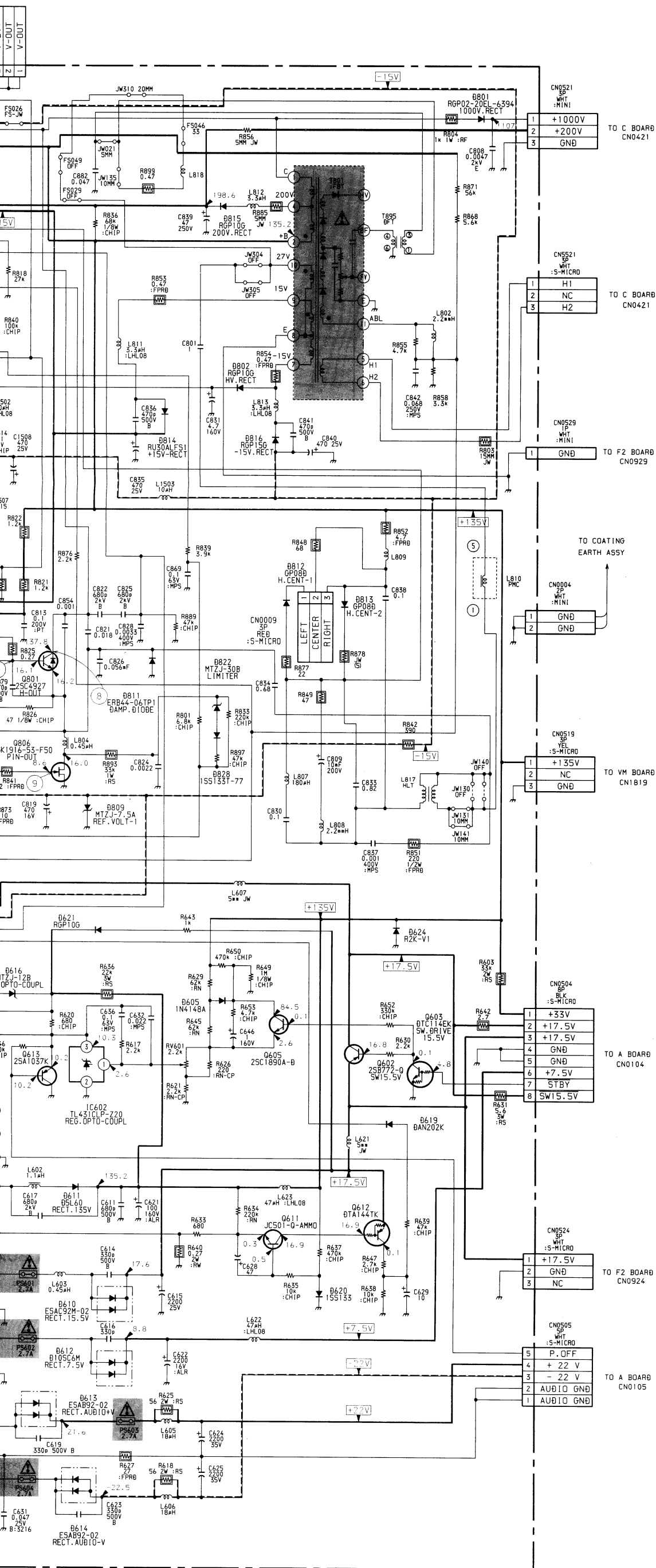
- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

WAVEFORMS D BOARD

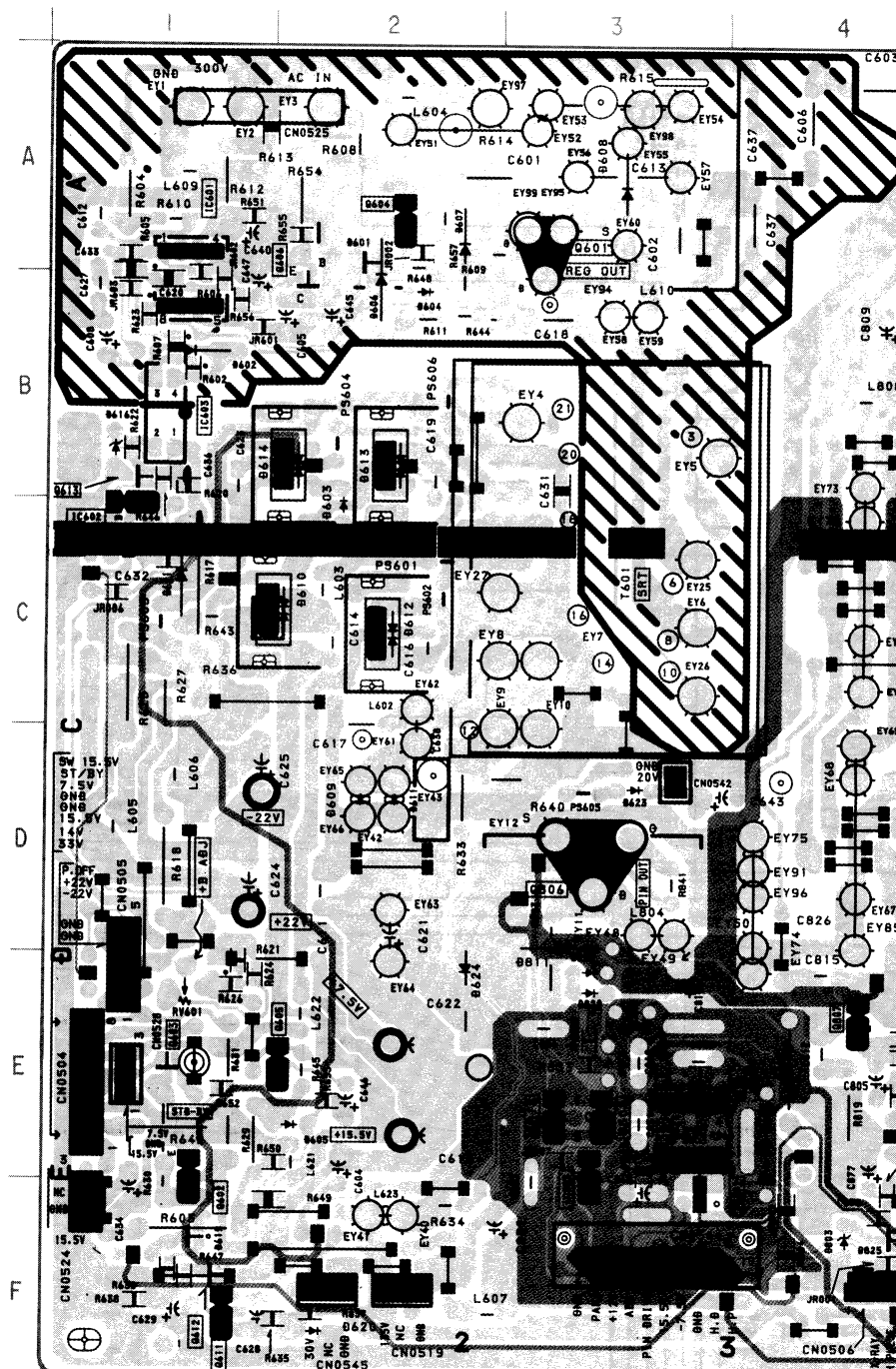


IC	
C001	C - 4
C002	B - 3, H - 7
C561	C - 8
C562	B - 8
C563	D - 7, J - 3
C2001	C - 4, I - 5
C2002	C - 5
C2003	B - 5, G - 3
C2004	B - 4, H - 5
TRANSISTOR	
Q002	K - 7
Q003	I - 6
Q564	I - 2
Q565	I - 1
Q566	G - 2
Q567	H - 1
Q2001	H - 5
Q2002	I - 4
Q2003	H - 3
Q2005	J - 3
Q2006	I - 3
Q2008	H - 4
DIODE	
D001	K - 7
D2001	G - 4
D2002	H - 4
D2003	H - 3



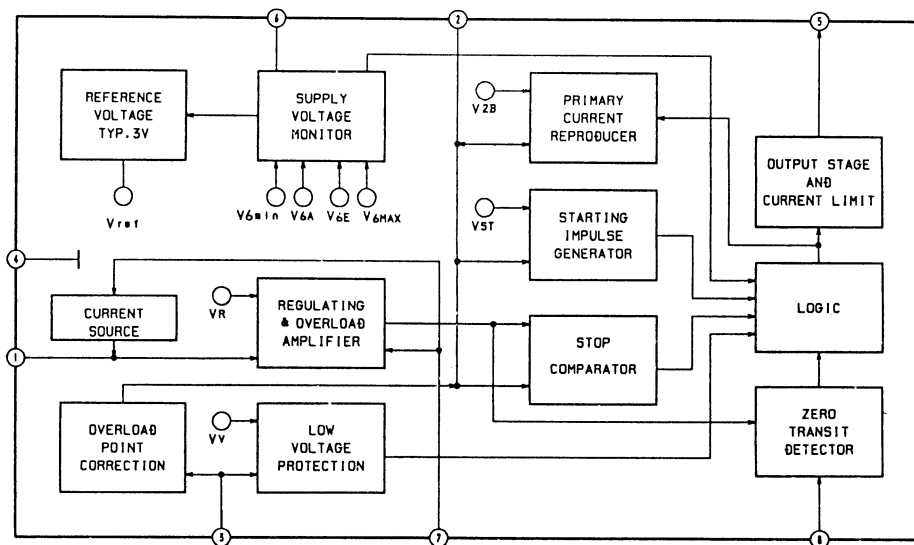


- D BOARD -



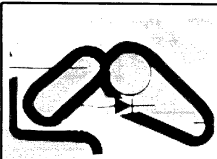
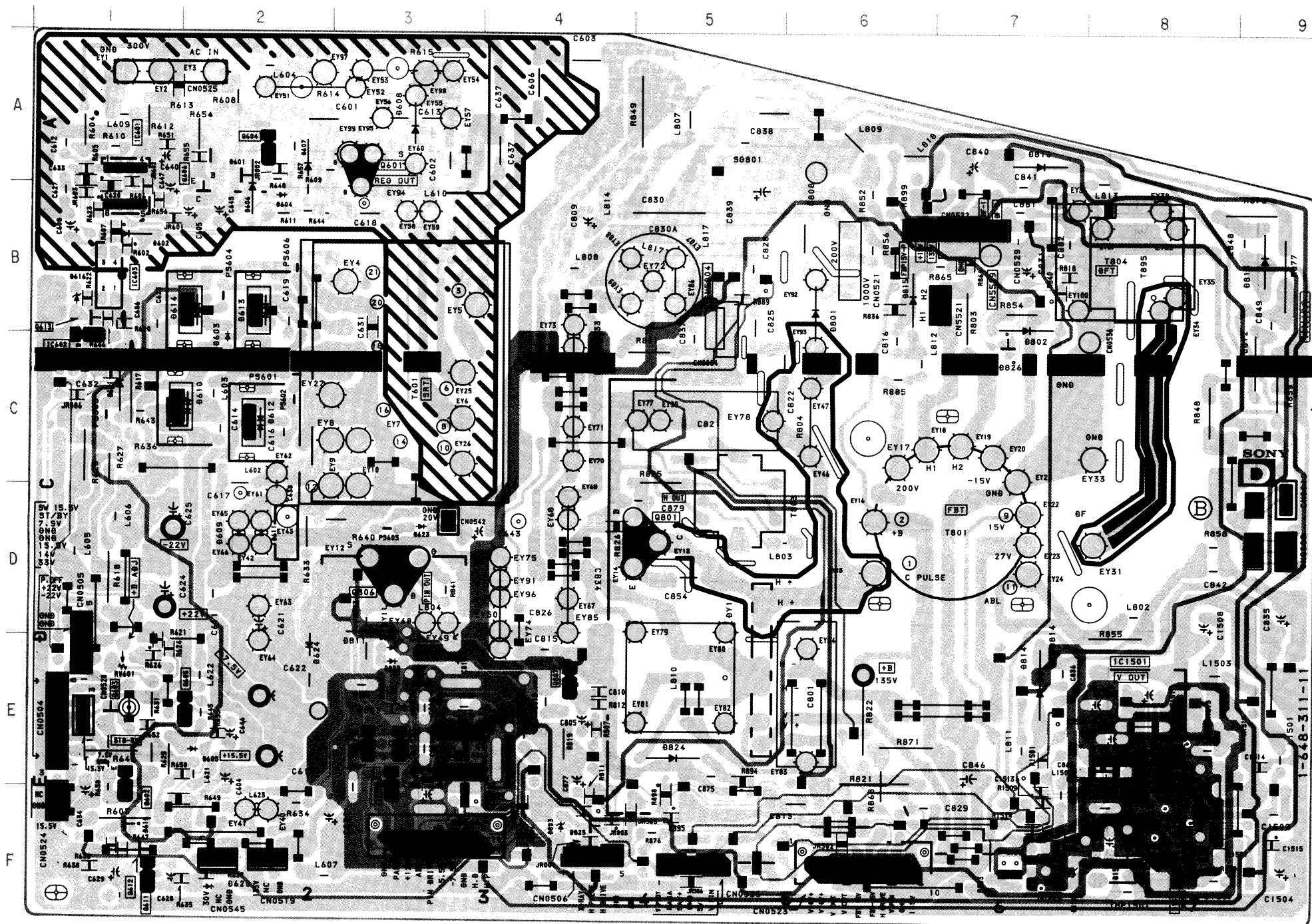
MC-Service

D BOARD IC601 TDA4605-3



- D BOARD -

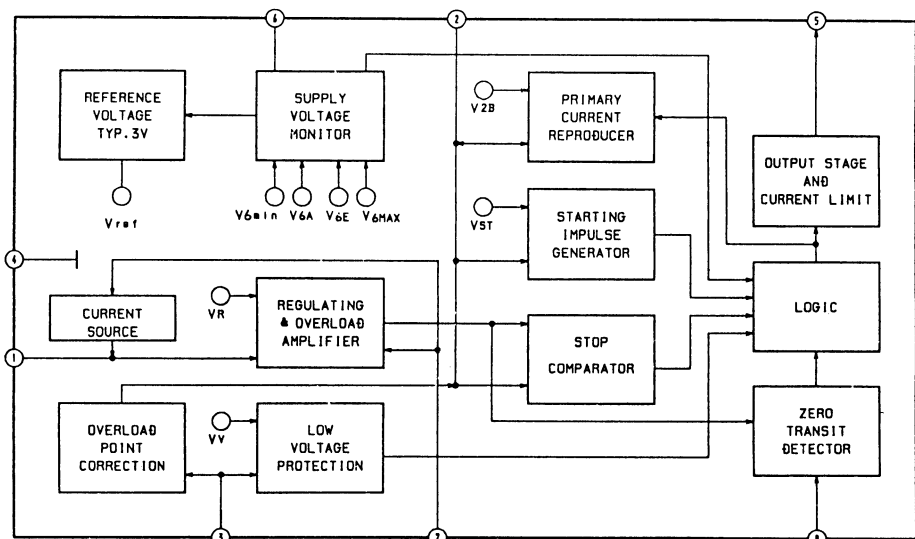
Note :
• : Pattern from the side which enables seeing.
• : Pattern of the rear side.



NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

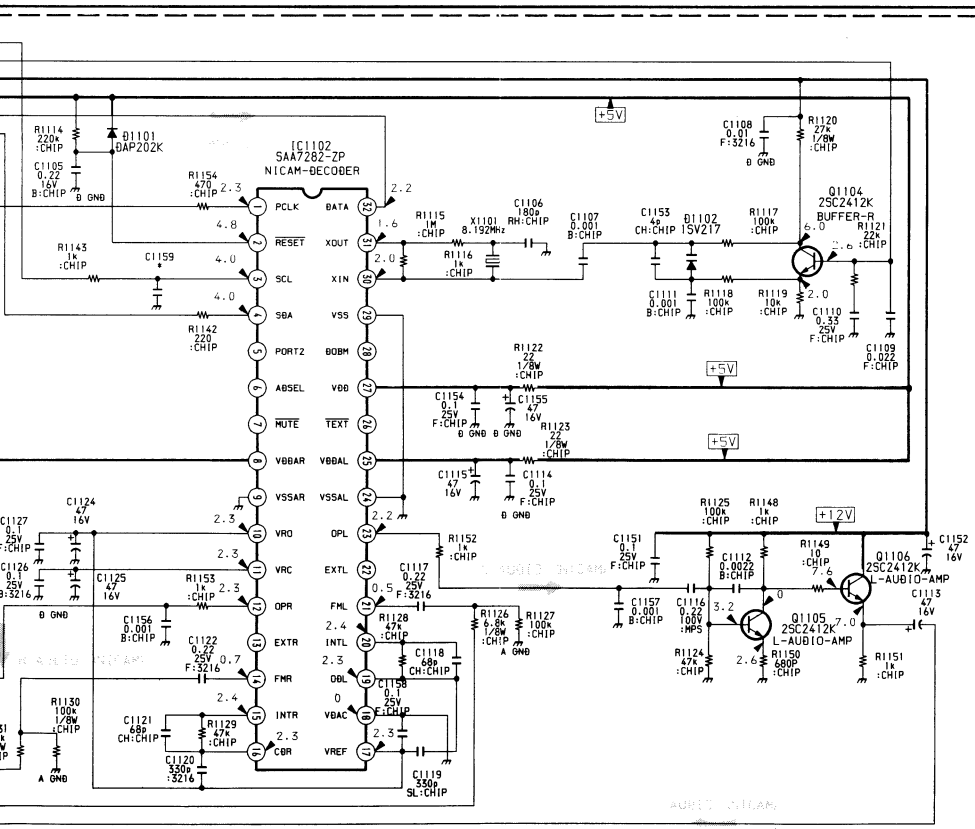
MC-Service

D BOARD IC601 TDA4605-3



IC		D607	A - 2
IC601	A - 1	D608	A - 3
IC602	C - 1	D610	C - 2
IC603	B - 1	D611	D - 2
IC801	E - 3	D612	C - 2
IC803	F - 3	D613	B - 2
IC1501	E - 8	D614	B - 2
TRANSISTOR		D616	B - 1
Q601	A - 3	D619	F - 1
Q602	F - 1	D620	F - 2
Q603	E - 1	D621	C - 1
Q604	A - 2	D624	E - 2
Q605	E - 2	D801	B - 6
Q606	B - 2	D802	B - 7
Q611	F - 1	D803	F - 4
Q612	F - 1	D809	E - 3
Q613	B - 1	D811	D - 3
Q801	D - 5	D812	C - 9
Q802	E - 3	D813	B - 9
Q806	D - 3	D814	E - 7
Q807	E - 4	D815	B - 6
Q813	E - 3	D816	A - 7
Q1501	F - 8	D822	E - 3
Q1502	F - 8	D824	E - 5
Q1503	F - 8	D825	F - 4
Q1504	F - 7	D826	C - 7
DIODE		D828	E - 3
D601	A - 2	D1501	F - 8
D602	B - 1	D1503	F - 8
D604	B - 2	D1504	F - 7
D605	E - 2	VARIABLE RESISTOR	
D606	B - 2	RV601	E - 1





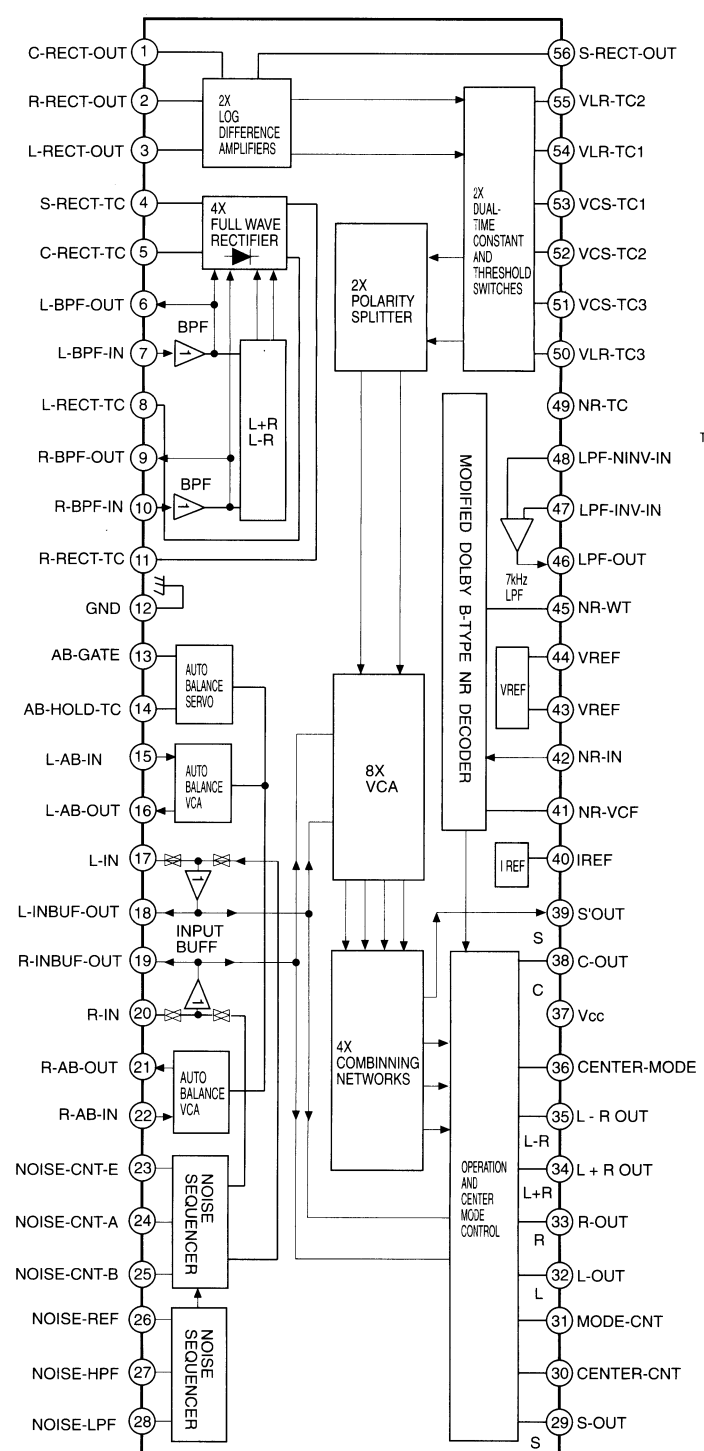
A3

NICAM DECODER
NICAM DEMODULATOR
GRAPHIC EQUALIZER
DOLBY

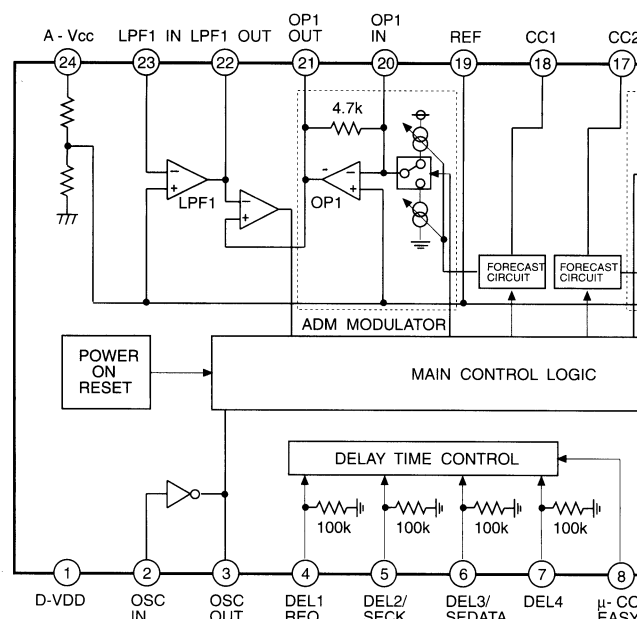
A3 BOARD * MARK

Model	KV-A2943E	KV-A2942U
BP1101	5.850MHz	6.552MHz
C1159	-	47P
CF1101	-	6.0MHz
CF1102	5.5MHz	-
JR1101	0 : CHIP	-
L1105	-	15MMh
X1102	11.700MHz	13.104MHz

A3 BOARD IC3201 M69032P



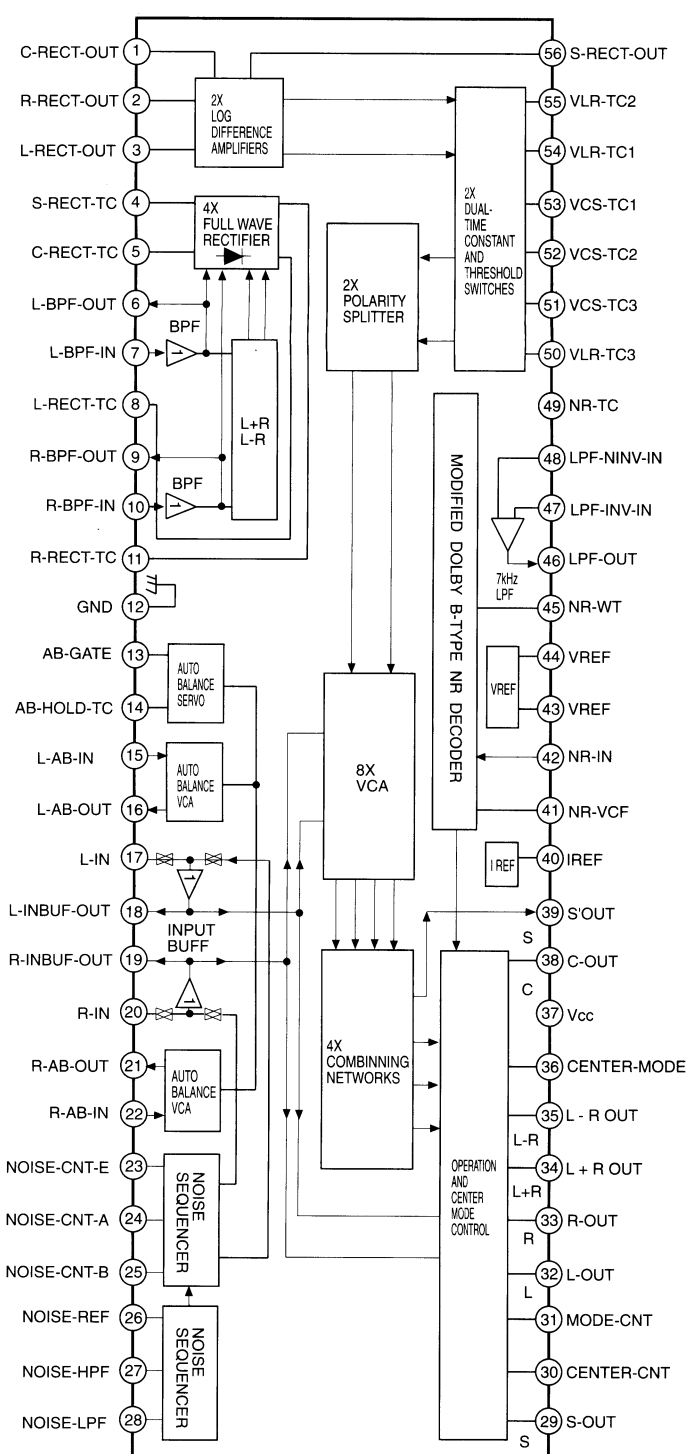
A3 BOARD IC3206 M50198P



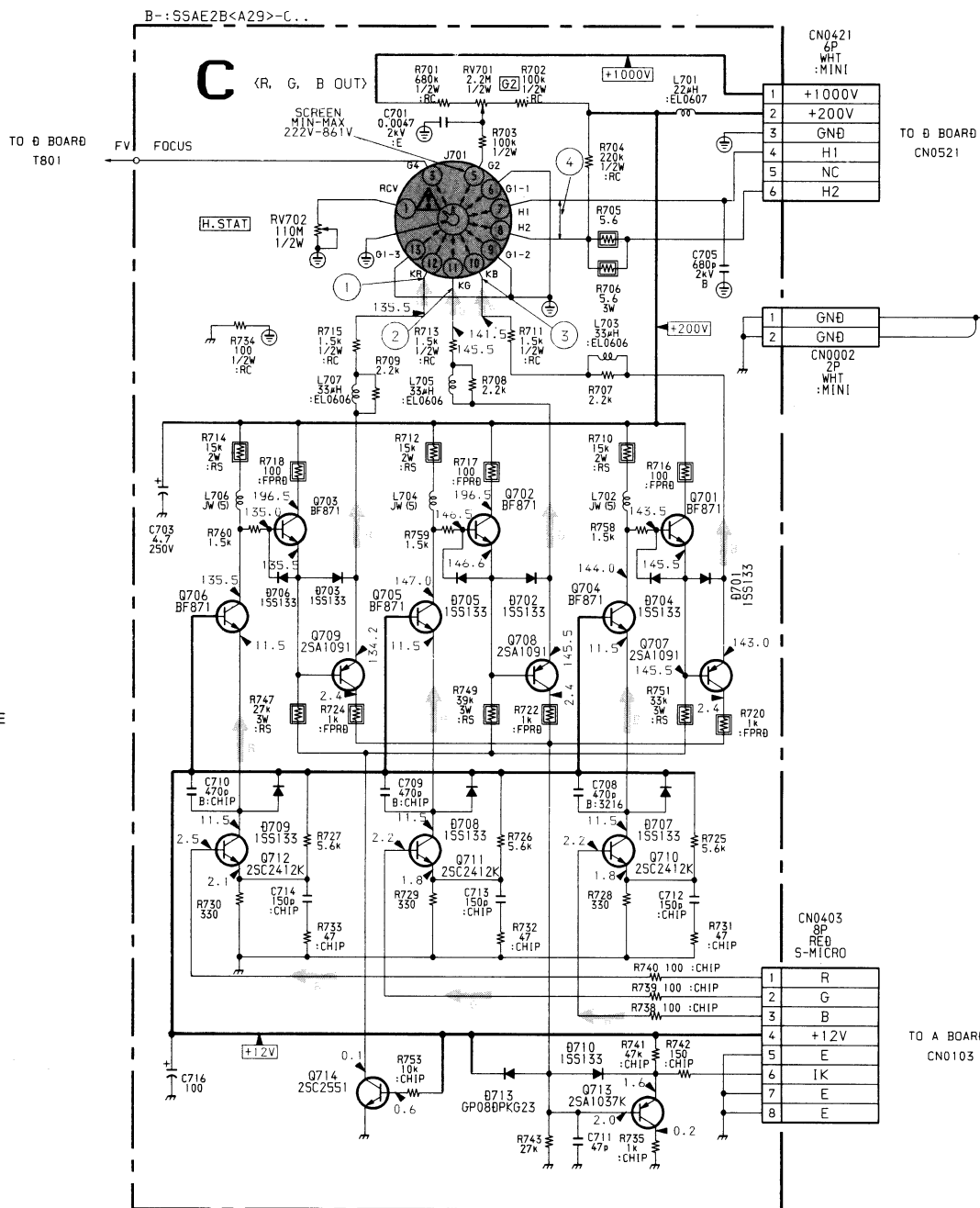
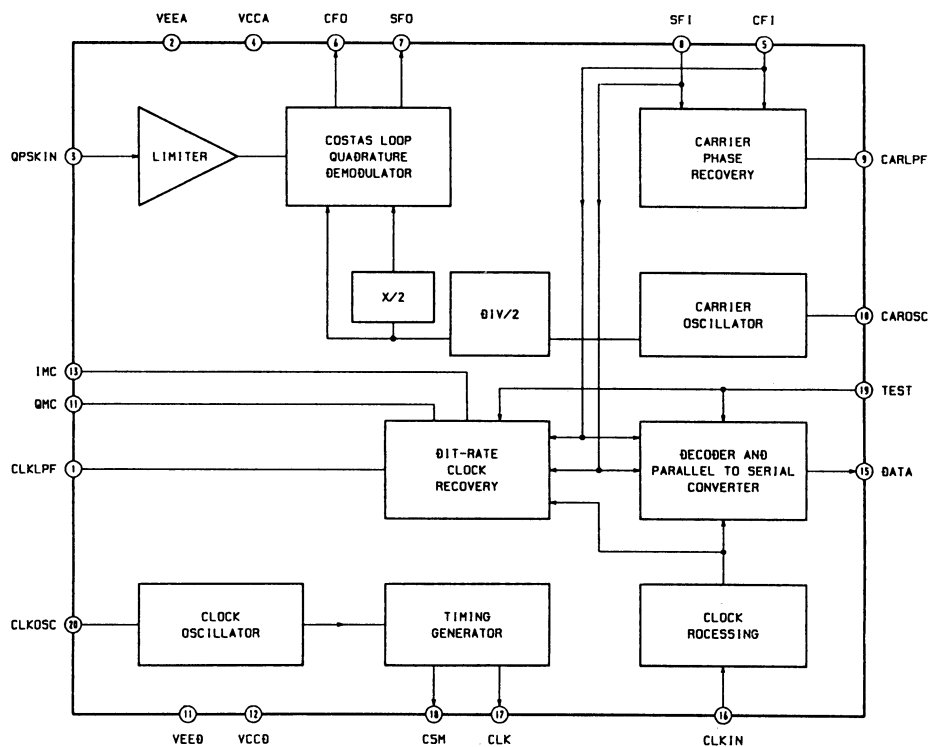
A3 BOARD * MARK

Model	KV-A2943E	KV-A2942U
BP1101	5.850MHz	6.552MHz
C1159	-	47P
CF1101	-	6.0MHz
CF1102	5.5MHz	-
JR1101	0 : CHIP	-
L1105	-	15MMh
X1102	11.700MHz	13.104MHz

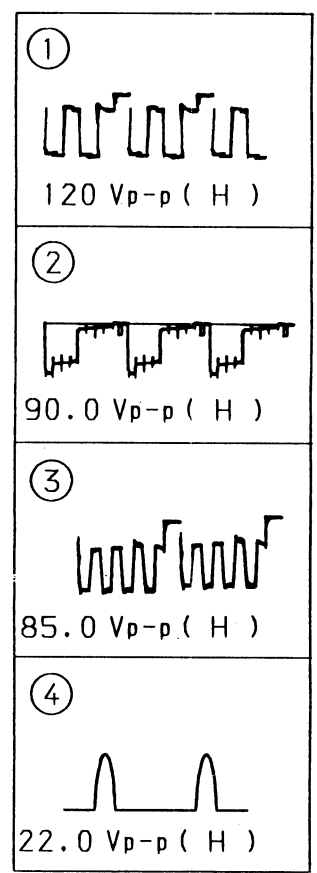
A3 BOARD IC3201 M69032P



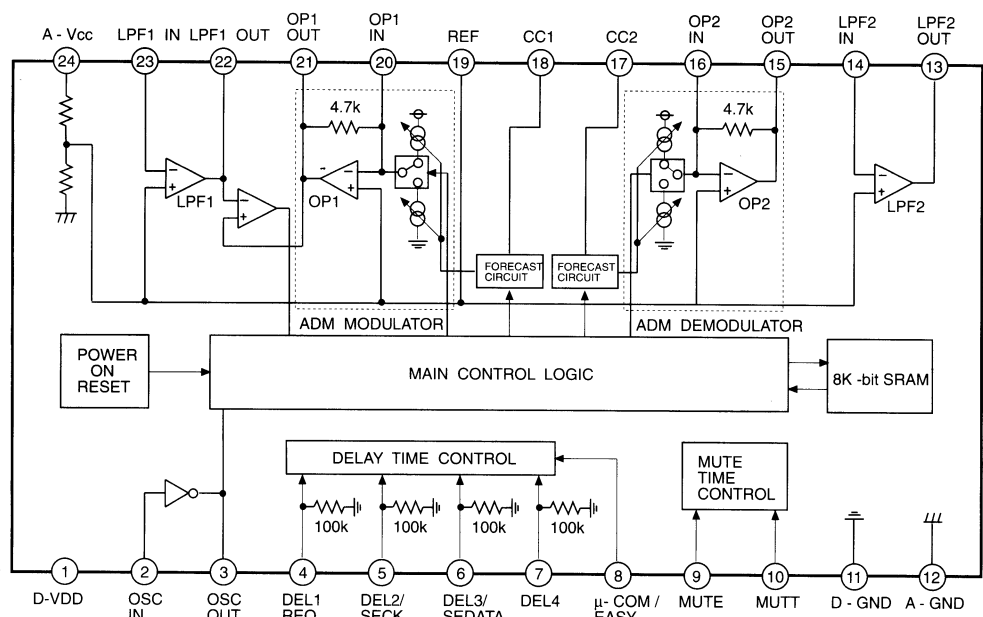
A3 BOARD IC1101 TDA8732



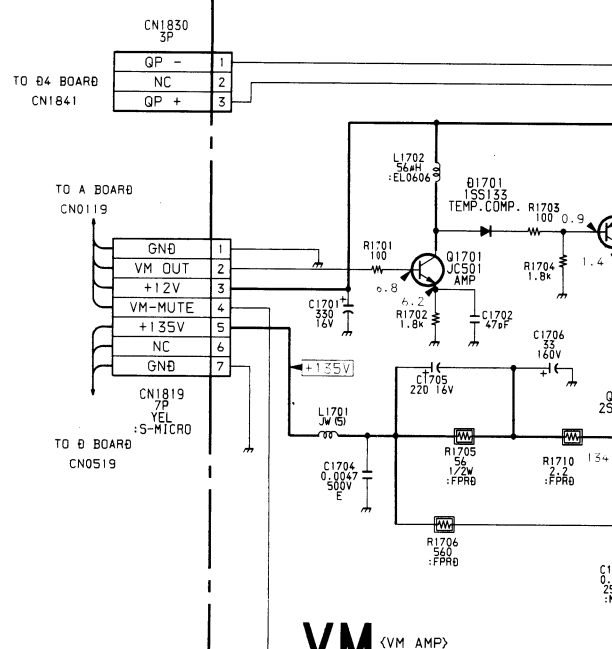
WAVEFORMS C BOARD



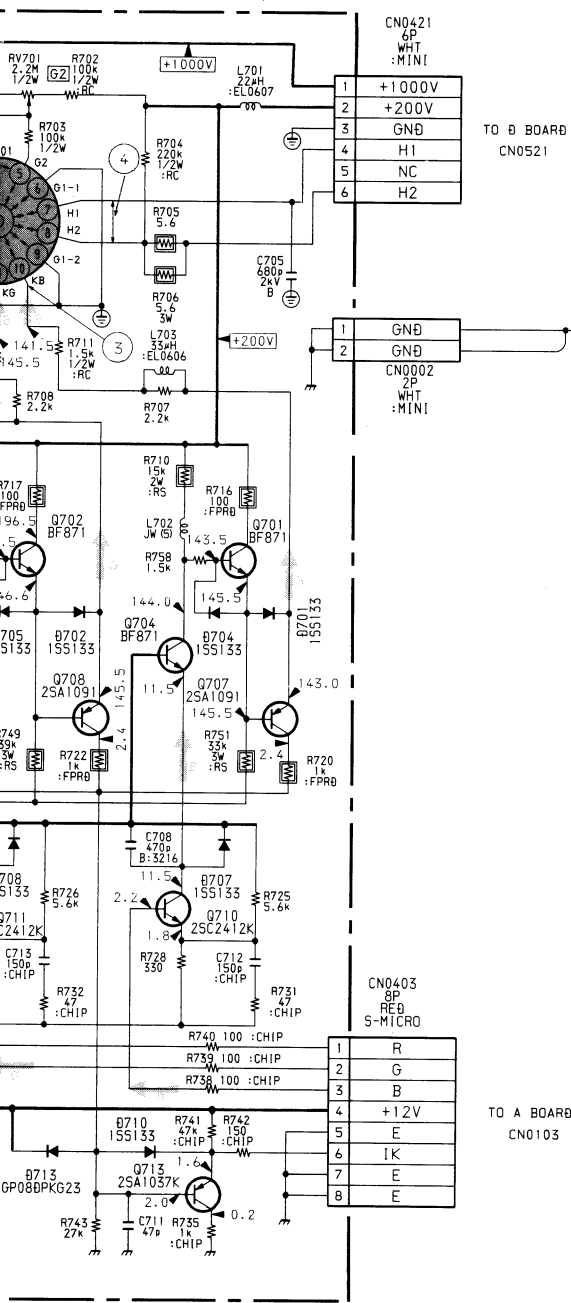
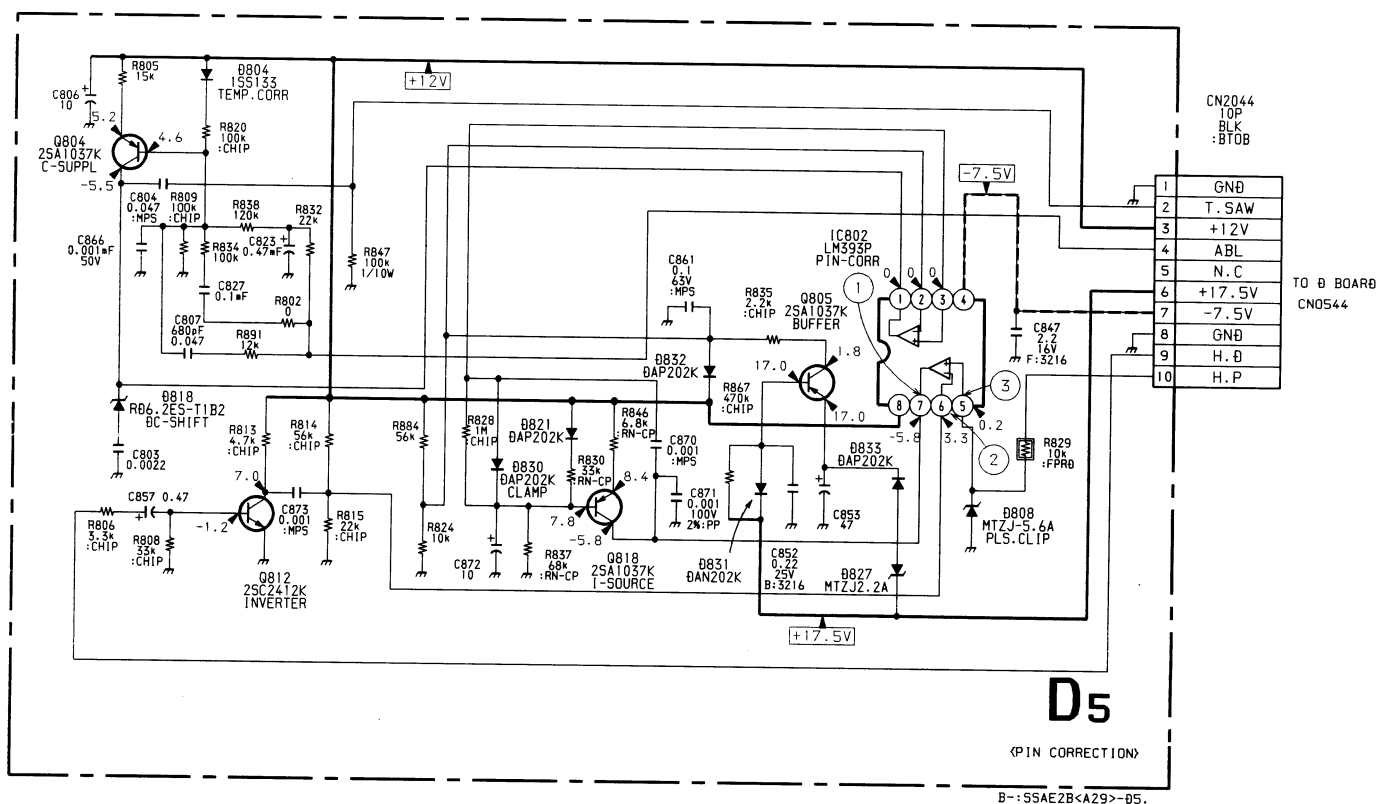
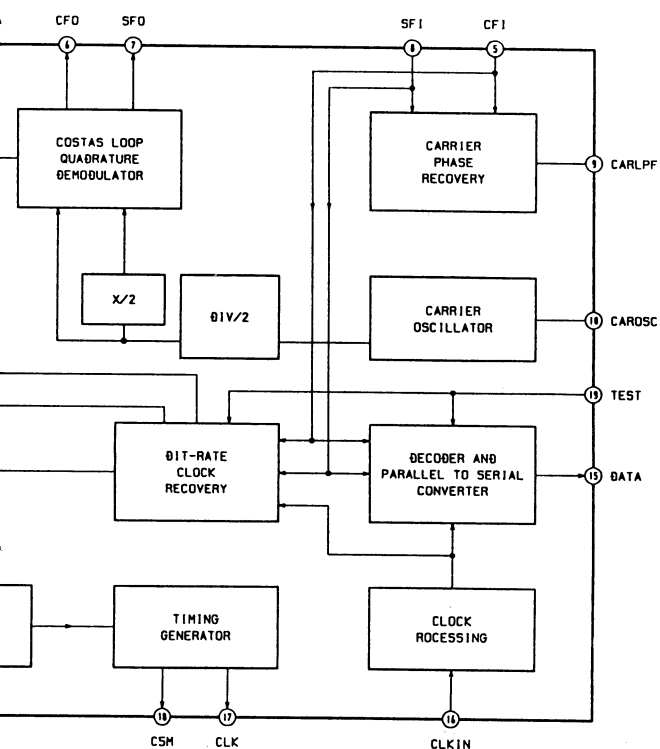
A3 BOARD IC3206 M50198P



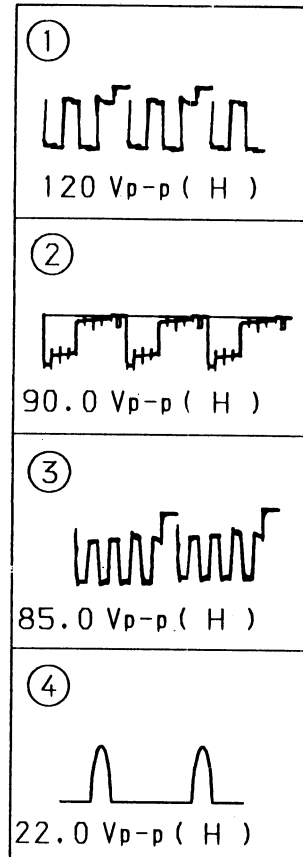
MC-Service



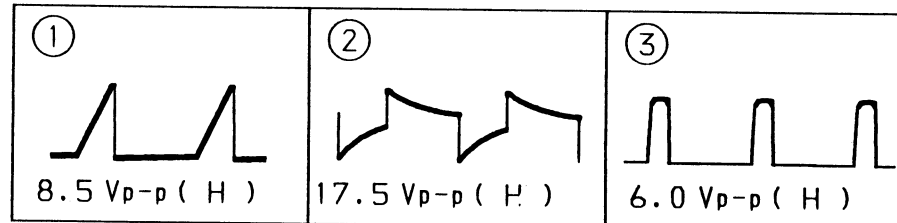
101 TDA8732



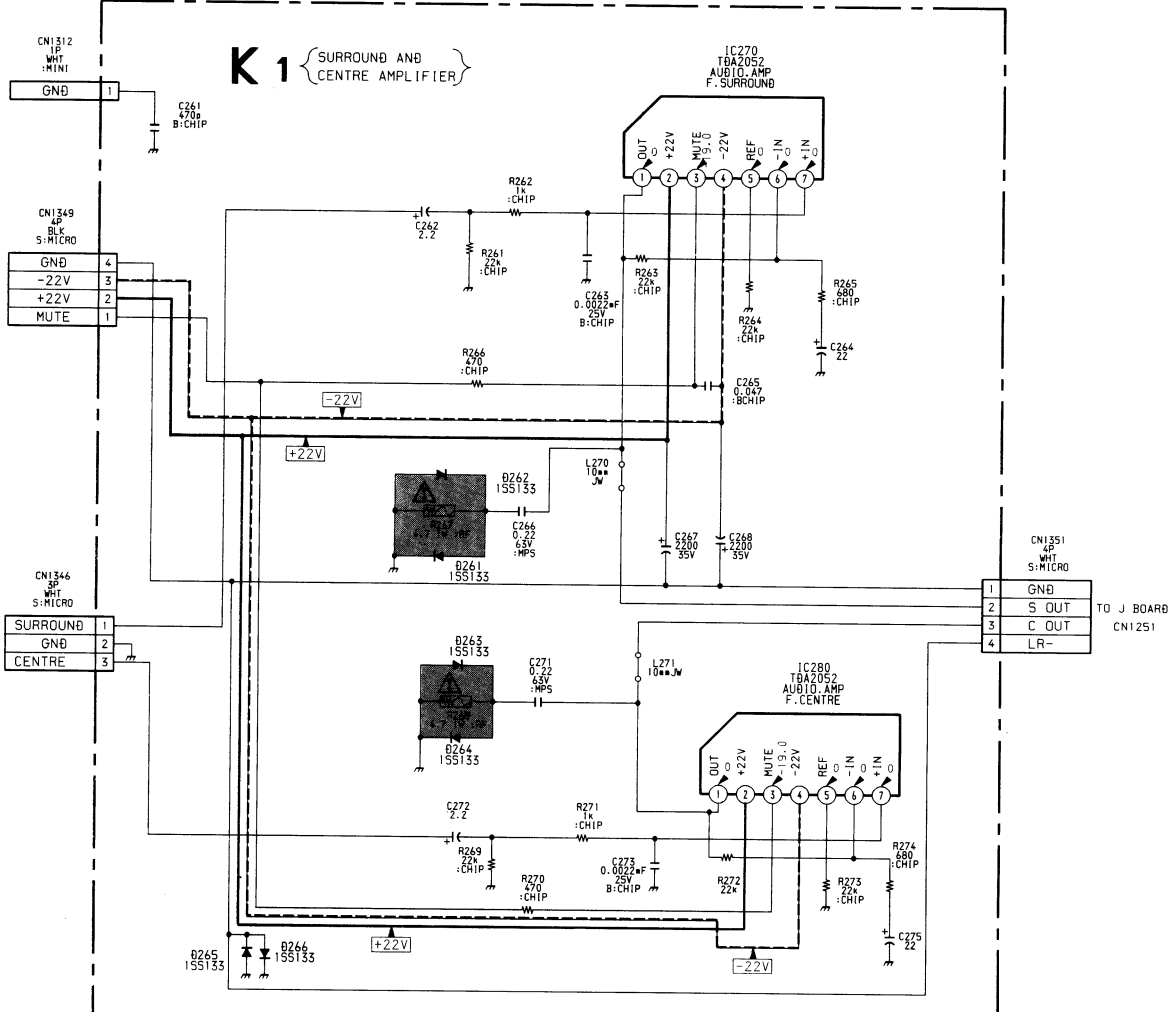
WAVEFORMS C BOARD



WAVEFORMS D5 BOARD



B-:SSAE2B<A/4>-K1.



[NICAM DECODER
 NICAM DEMODULATOR
 GRAPHIC EQUALIZER, DOLBY

SURROUND AND
CENTRE AMPLIFIER

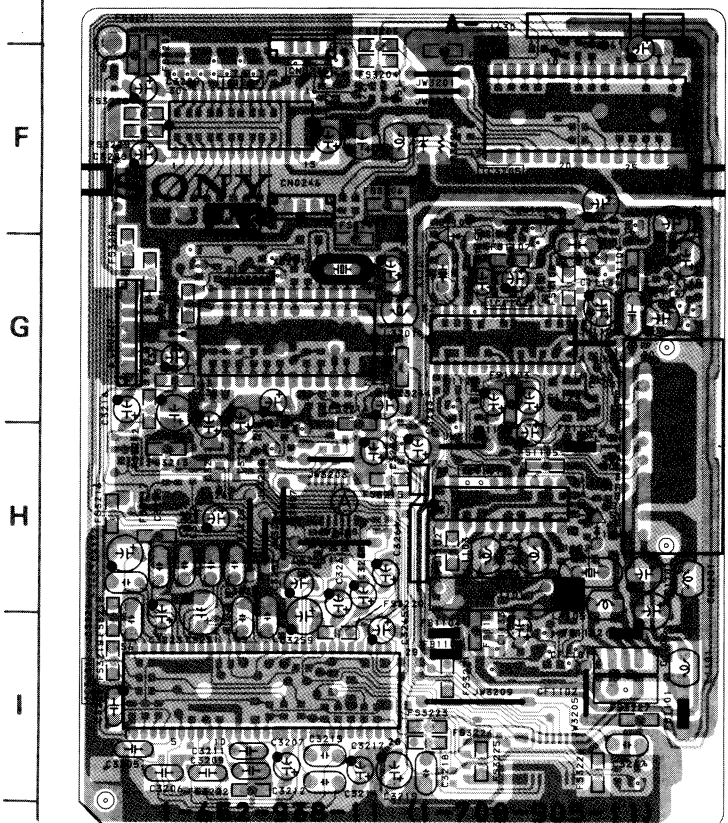
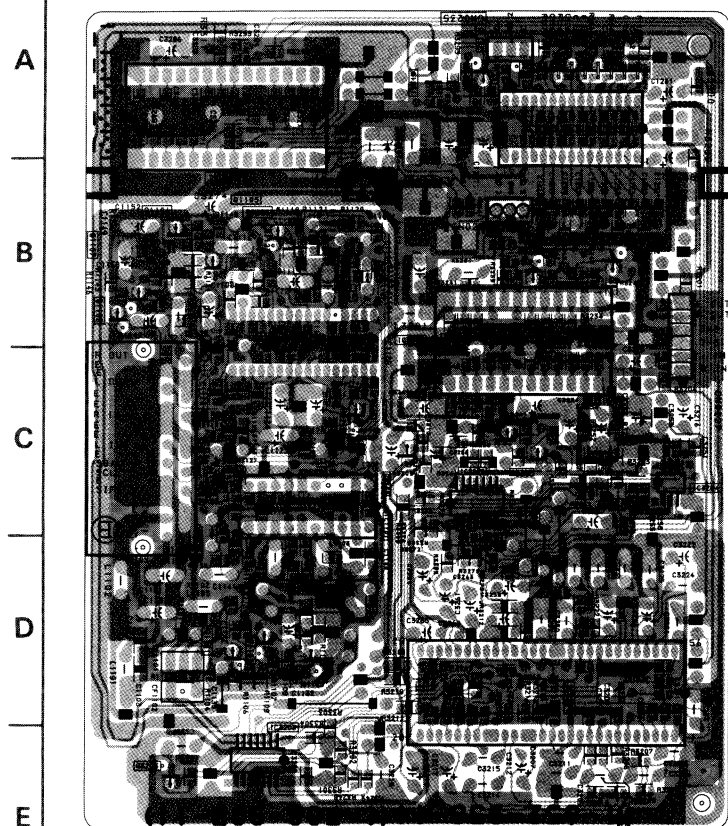
[PIN CORRECTION]

[R.G.B. OUT]

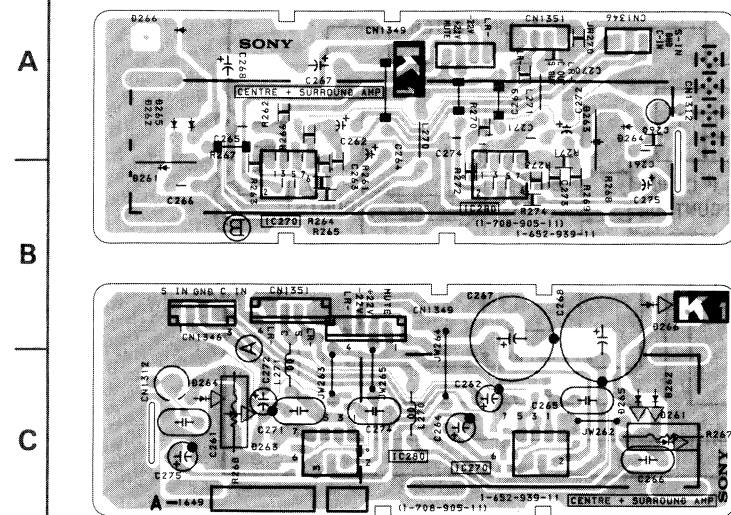
[VM AMP]

$$\lceil V - \text{PIN } Q \text{ } P \rceil$$

1	2	3	4
---	---	---	---

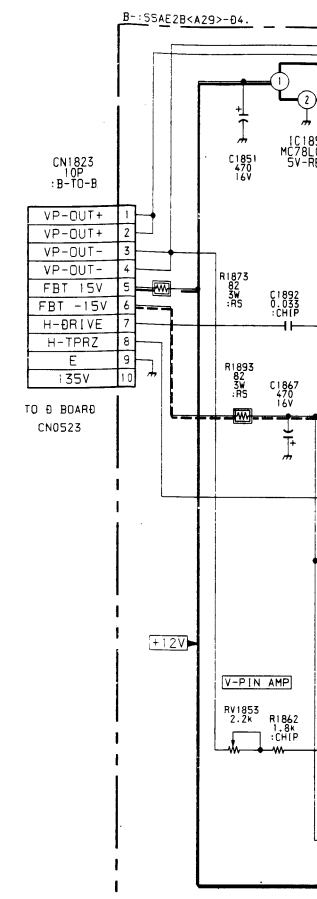


1 | **2** | **3** | **4**

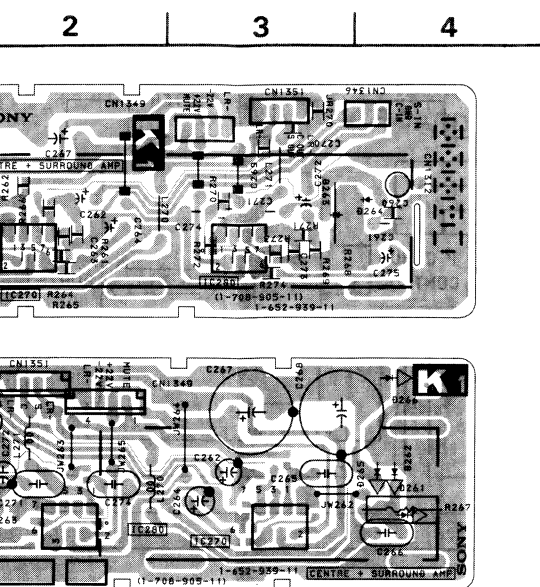


- : Pattern from the side which enables seeing.
-  : Pattern of the rear side.

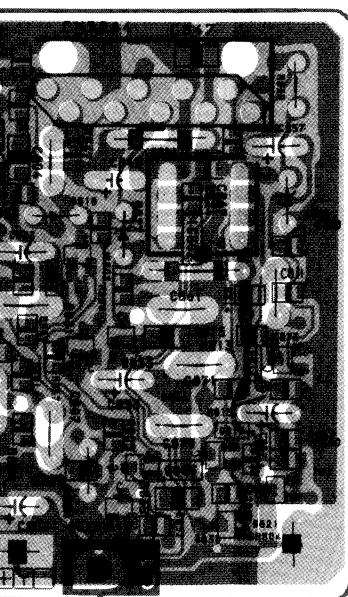
MC-Service

[illegible]

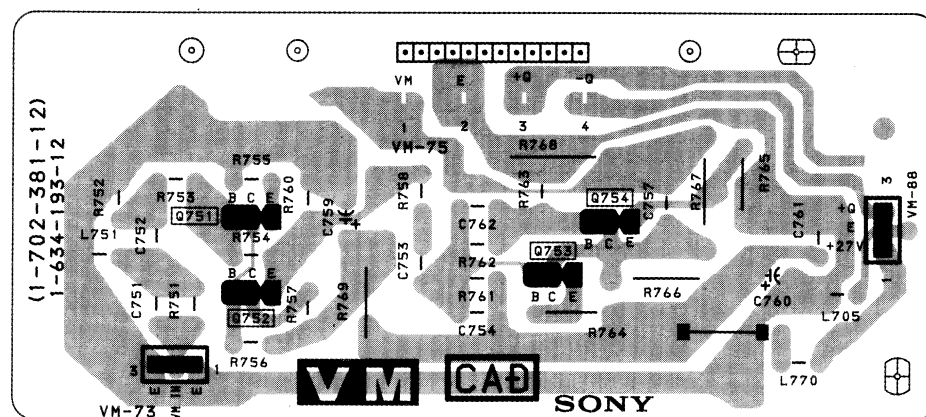
- C BOARD -



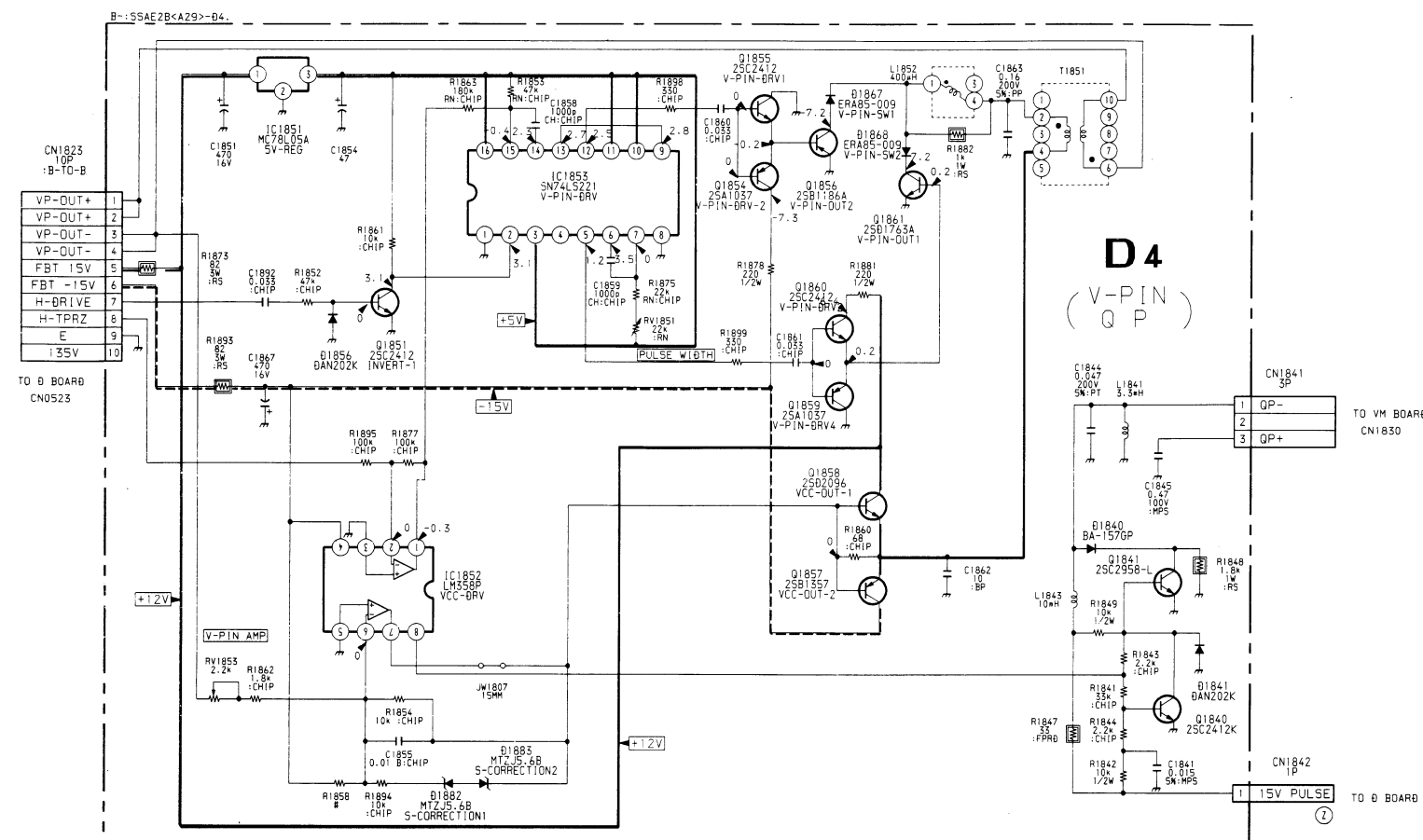
5 BOARD —



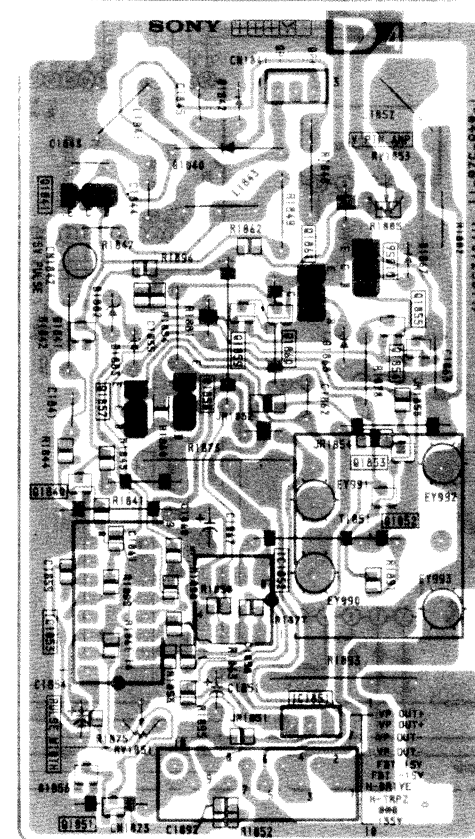
– VM BOARD –



 : Pattern from the side which enables seeing.
 : Pattern of the rear side.

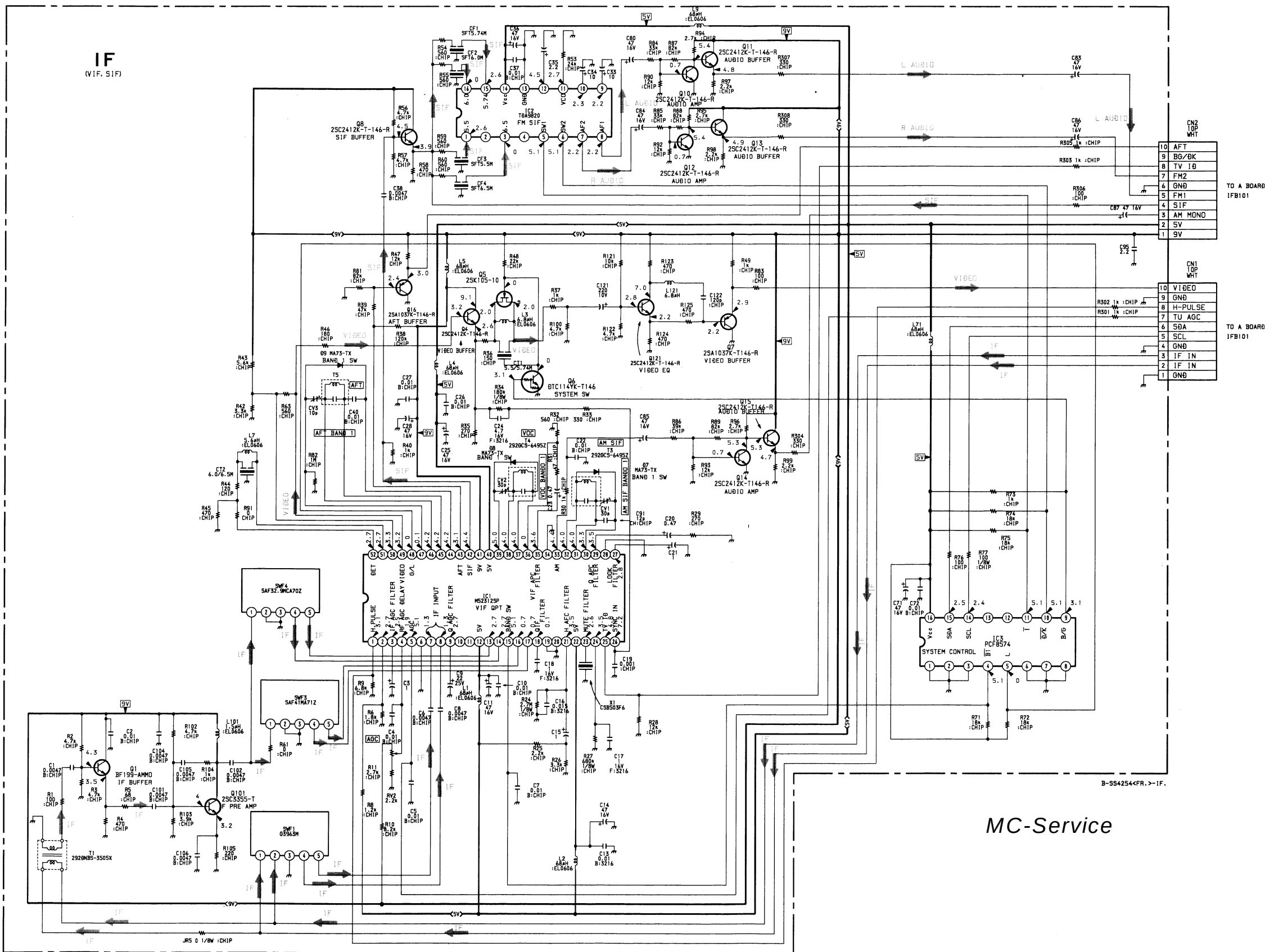


- D4 BOARD -

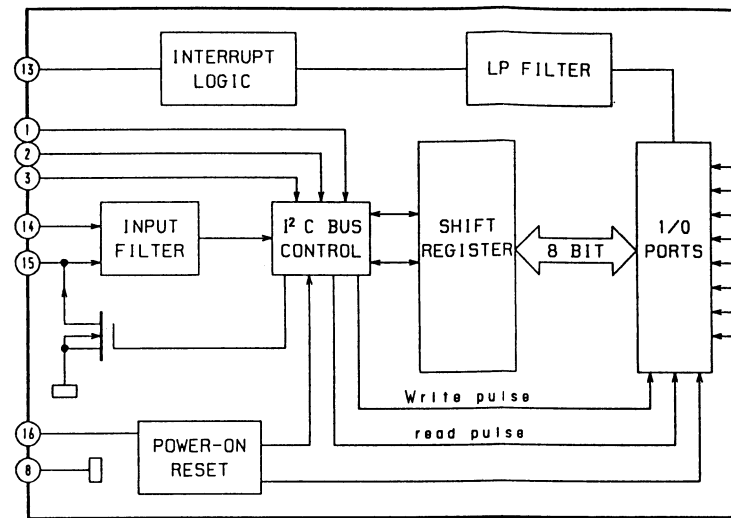


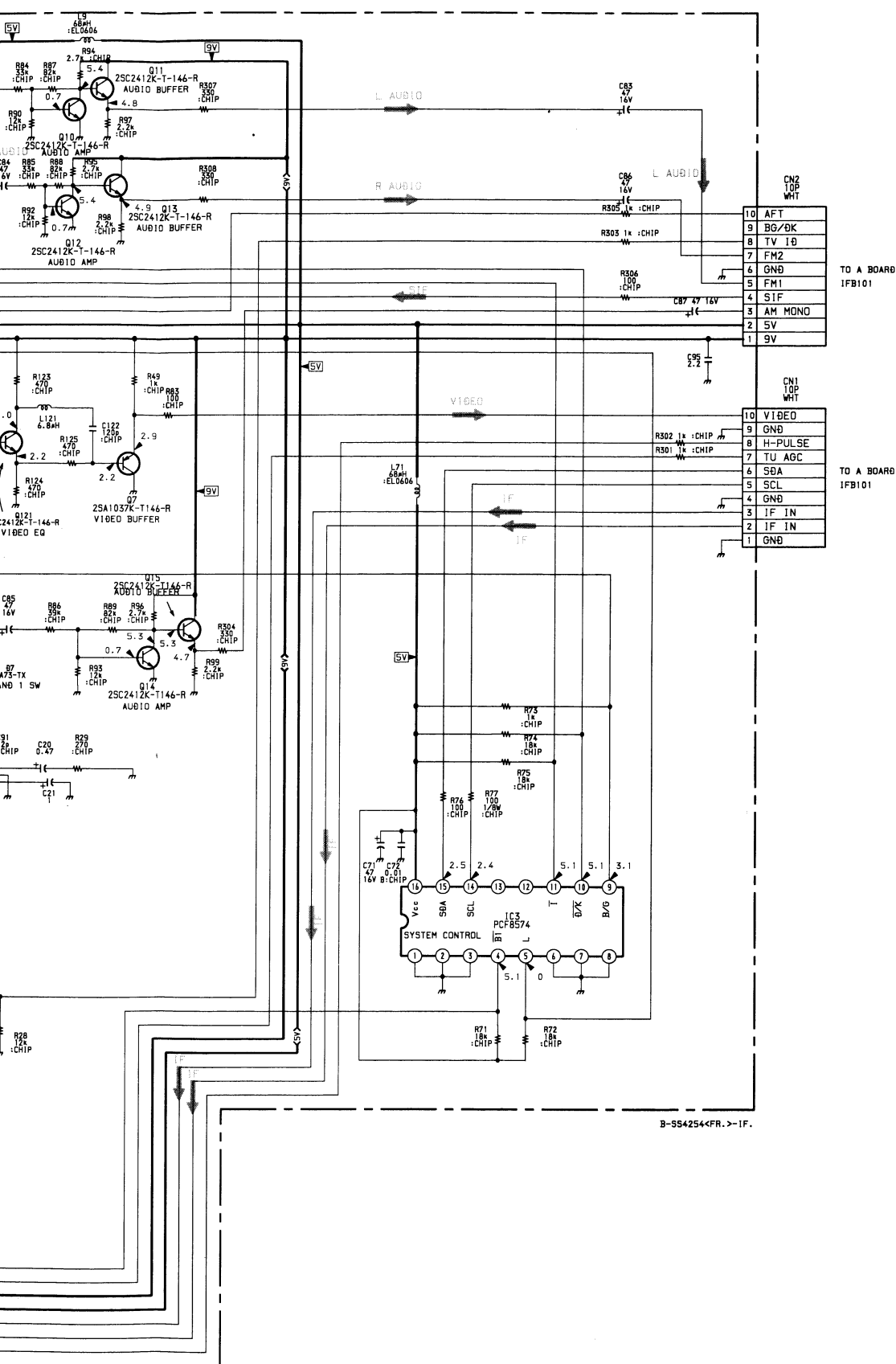
MC-Service

IFH389F (French Model)

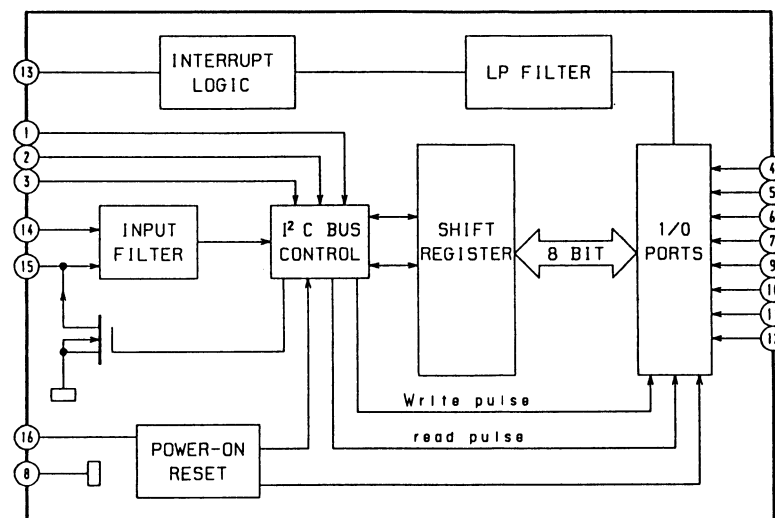


IF BOARD IC3 PC8574 (French Model)



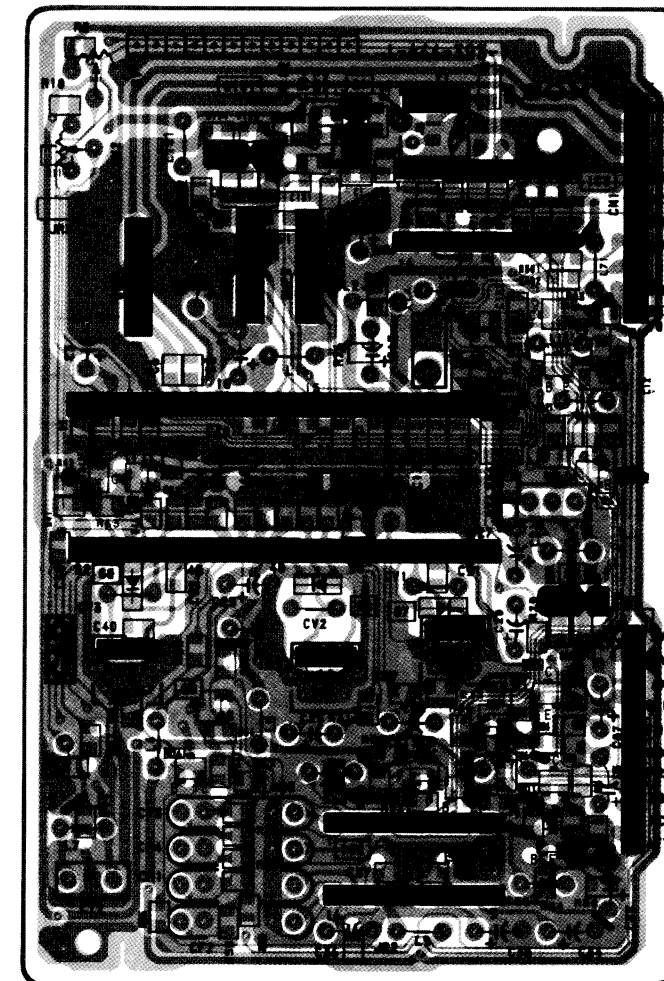


IF BOARD IC3 PC8574 (French Model)



IF [VIF, SIF]

– IF BOARD – (French Model)

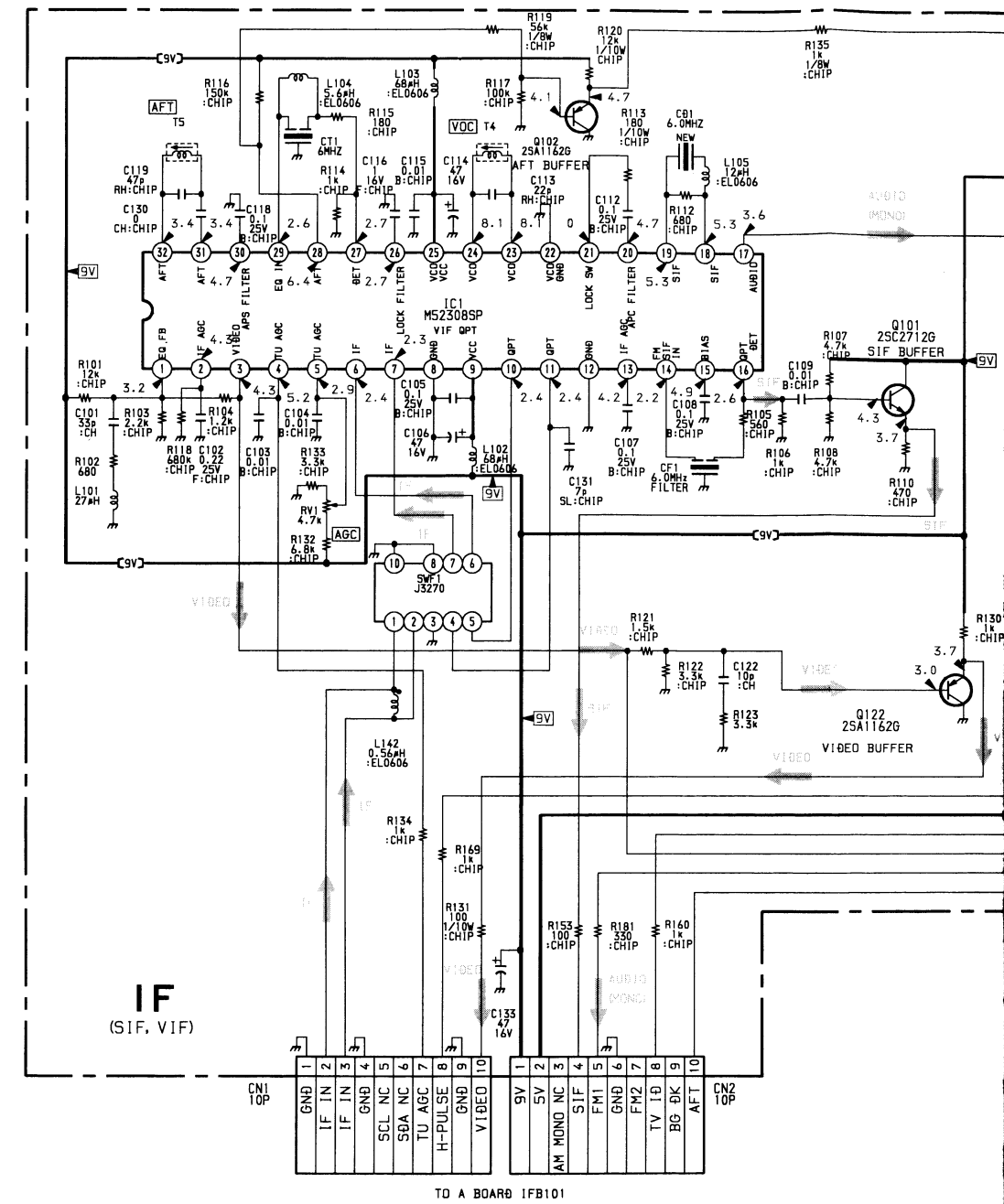
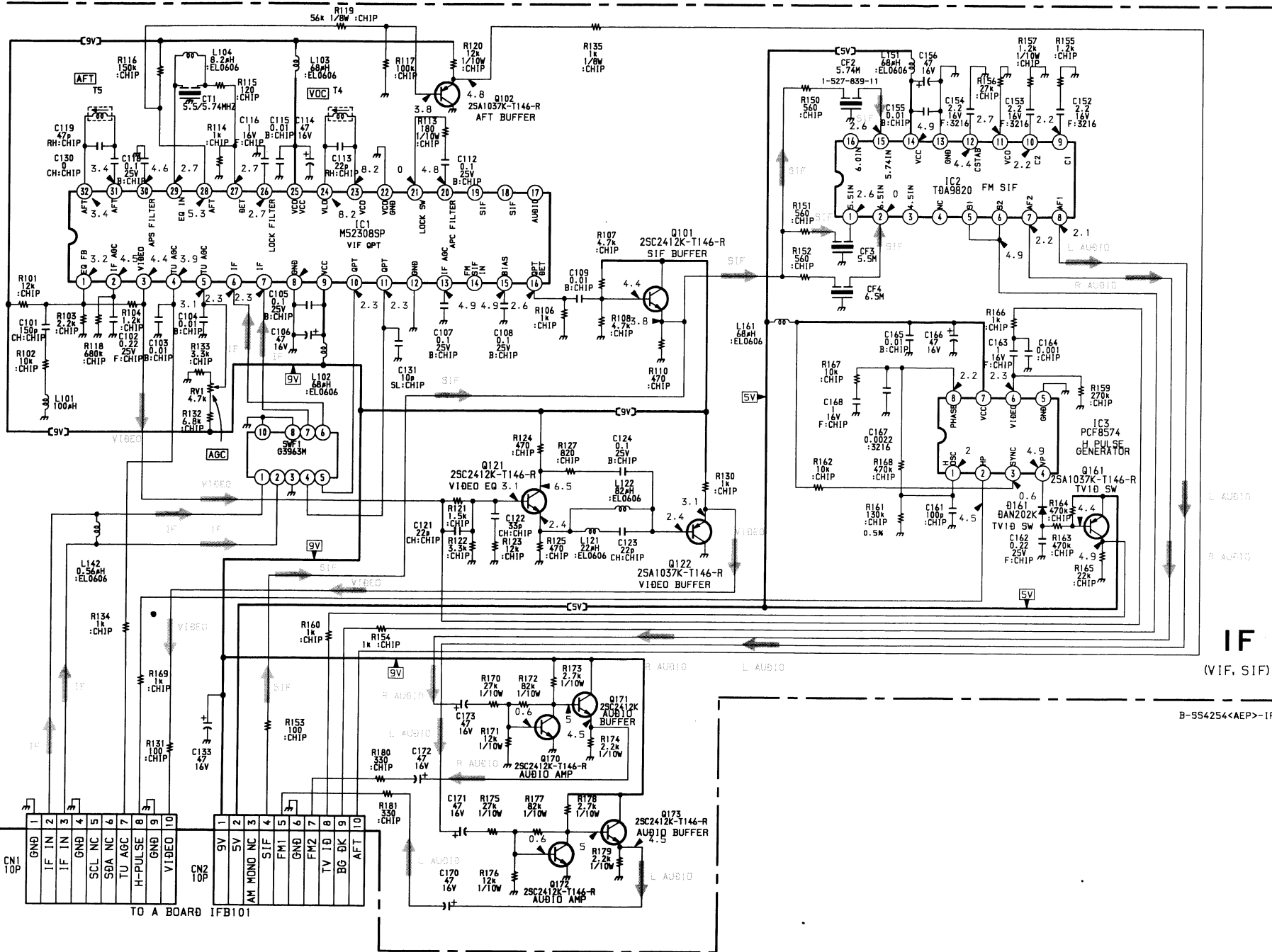


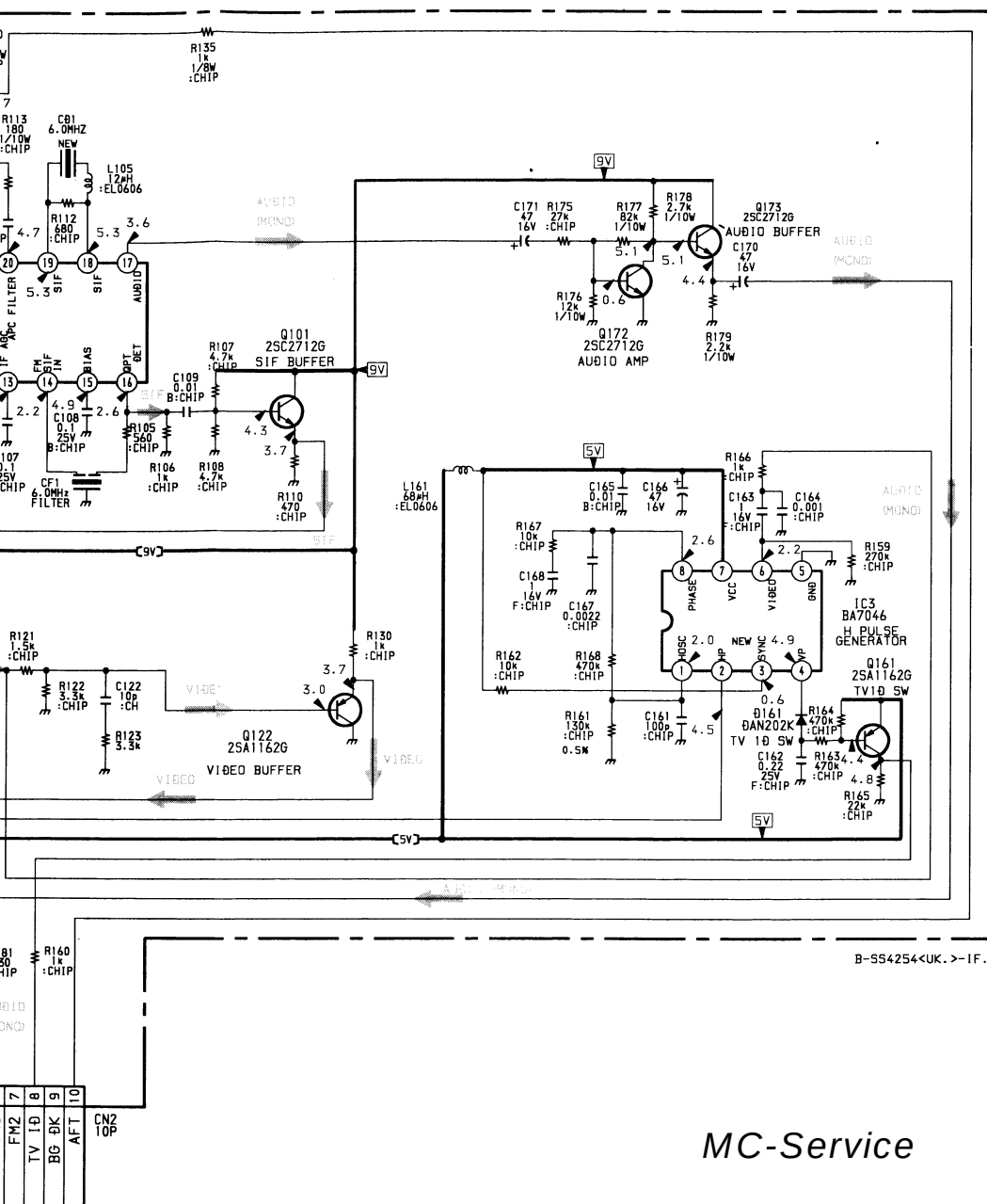
Note :

- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

MC-Service

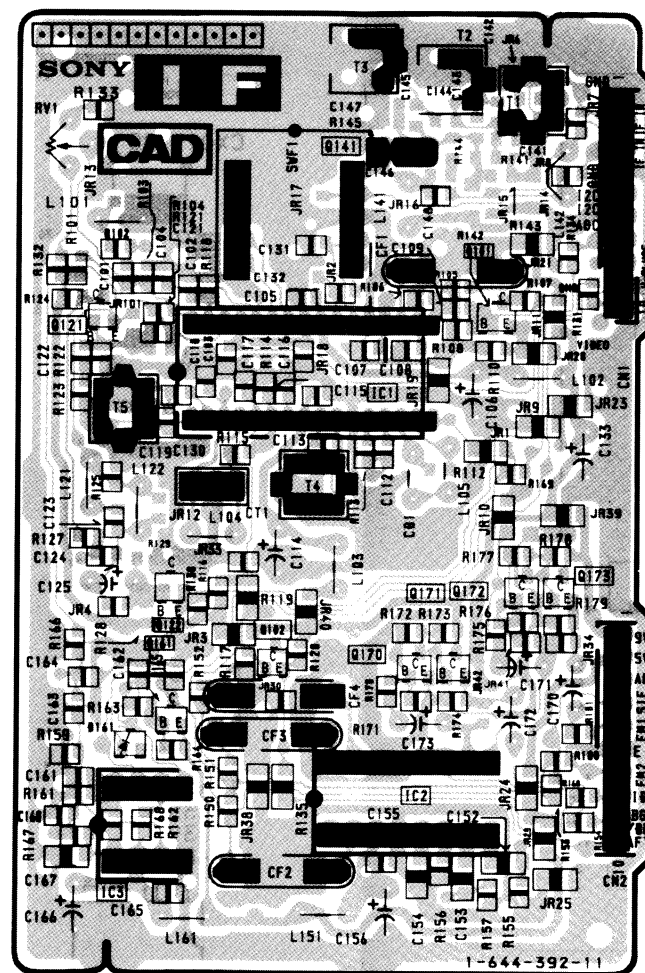
IF395 (UK MODEL)



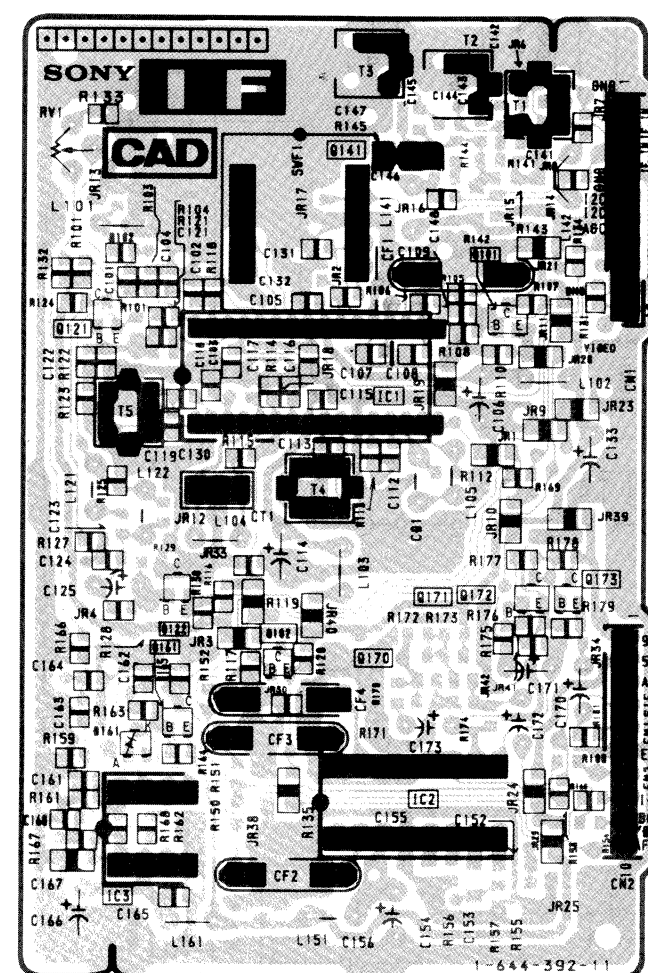


IF [VIF, SIF]

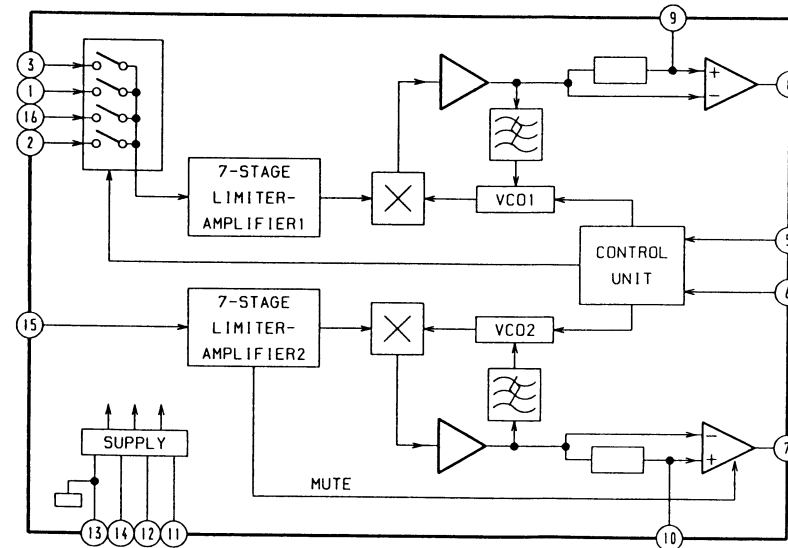
— IF BOARD — (AEP, Italian, Spanish Model)



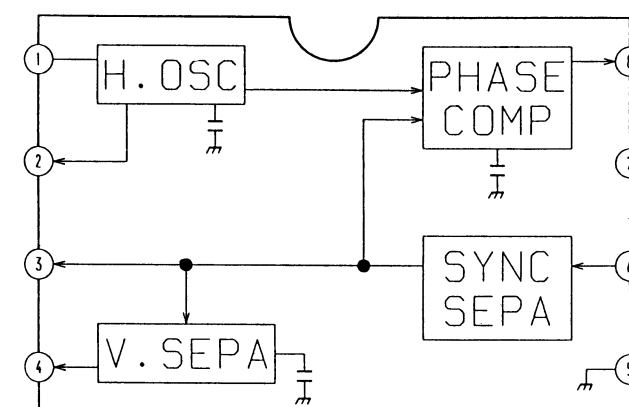
— IF BOARD — (UK Model)



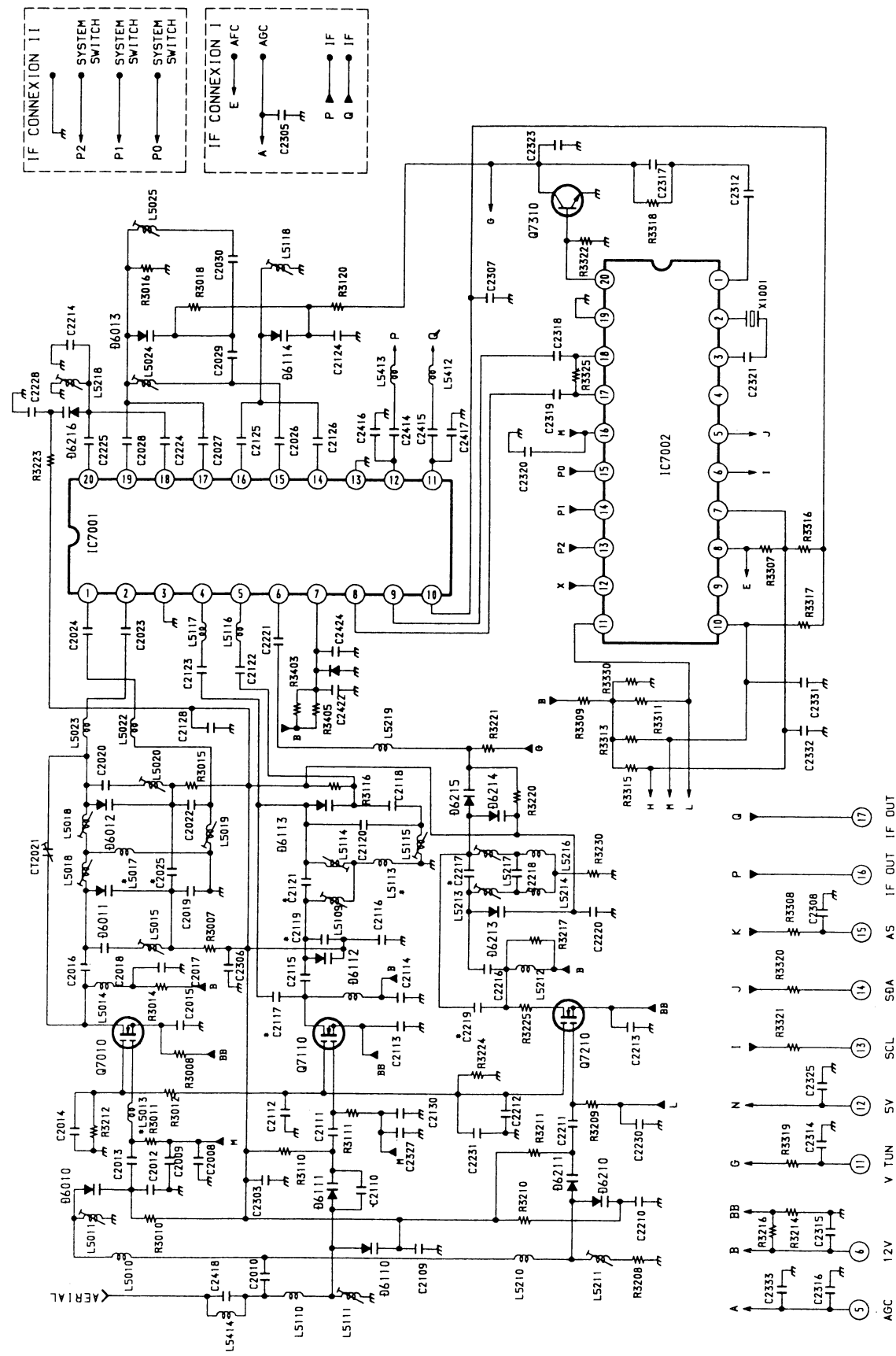
IF BOARD IC2 TDA9820 (AEP, Italian, Spanish Model)



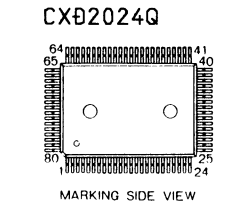
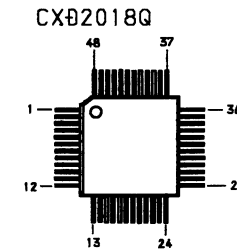
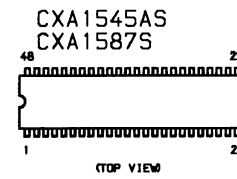
IF BOARD IC3 BA7046 (AEP, Italian, Spanish, UK Model)



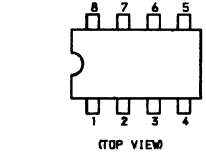
5-4. SCHEMATIC DIAGRAM OF TUNER
A BOARD TU101 UV916H



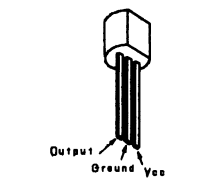
5-5. SEMICONDUCTORS



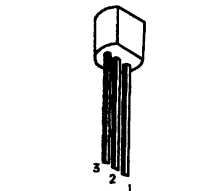
LM358D
LM393P
LM358P
T0A2822M
T0A4605-3
TEA2114
APC358C
APC393C
X24C16P



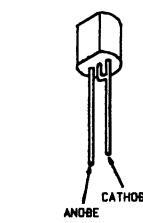
MC78L08ACPRP
MC78L12ACPRP



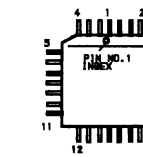
NJM78L05A
NJM78L05F
NJM78M09FA



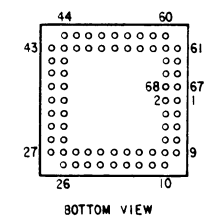
RC7809FA



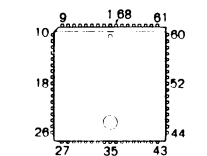
SBX1610-11



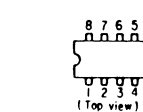
S0A30C162-GEG



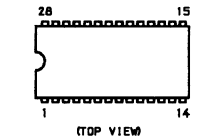
S0A5273-B14-GEG



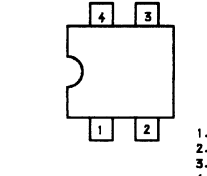
S0A9085



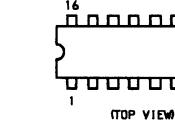
S0A91872X-GEG
S0A91883X-GEG
T0A6612



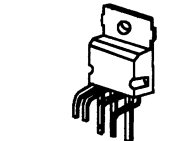
SFH617G-1



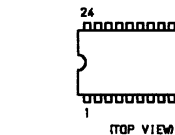
SN74LS221N
T0A466A/V2
T0A9160/N2



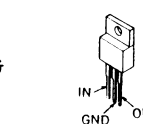
T0A2052
T0A8138
T0A8179S



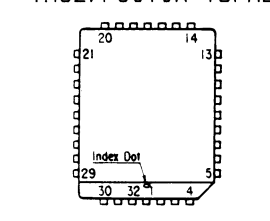
T0A8443B
T0A9145/N1



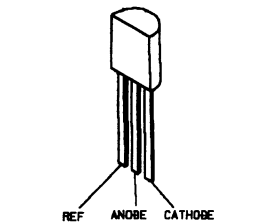
TEA7605



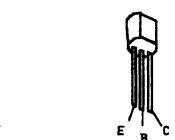
TMS27PC010A-15FML



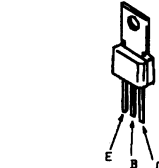
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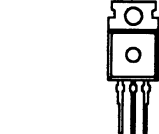
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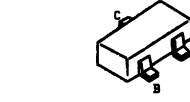
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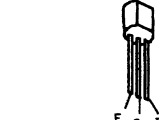
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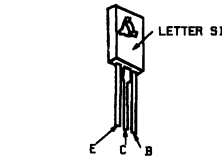
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0TA144EK
0TA144TK
0TC114EK
0TC124EK
0TC144EK
2SA1037K-R
2SA1162-G
2SC1623-L5L6
2SC2412K-T-146-R
2SC2412K-T-146-QR
2SC2413KQ



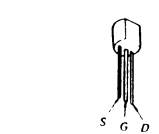
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JC501-Q-AMMO
2SA733-K
2SA1091-0
2SC1890A-0
2SC2551-0



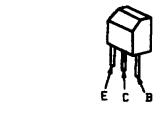
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2SB772-Q
2SC2688-LK



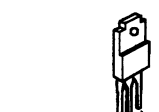
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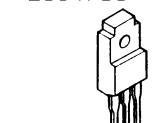
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2SC2958
2SD774-34



2SB1186A
2SC3298B-Y
2SD1763A



2SC4793



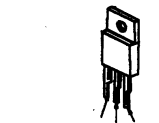
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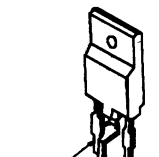
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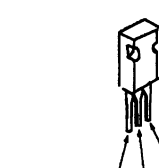
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2SD2012



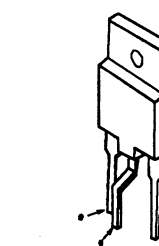
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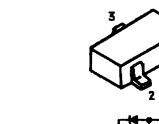
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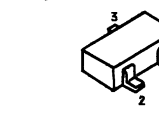
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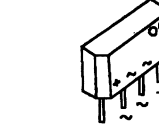
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0AP202K
1S2836



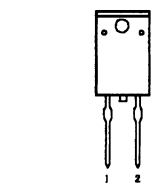
0A204K



1SS226



05L60



MC-Service

4-34
58
4-34
86A
98B-Y
63A
3
35-HFE
7-01
A-P
2
1

2502096-EF

010SC6M

ESAB92-02

25K1916-53-F50

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ERC25-06S
RGP02-20EL-6394
RU30ALFS1
RU3AM

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0AP202K
1S2836

EL1Z
ERB44-06
GP080
RGP10GPKG23
RGP15GPKG23
R2K-V1
1N4148A-T265

MA152WK

MA3030-H (TK)
MA3039H-TX
MA3047L-TX

0A204K

ERA85-009
MTZJ-T-77-12B
MTZJ-T-77-13C
MTZJ-T-77-15A
MTZJ-T-77-2.2A
MTZJ-T-77-3.6A
MTZJ-T-77-30B
MTZJ-T-77-33C
MTZJ-T-77-39C
MTZJ-T-77-5.6A
MTZJ-T-77-5.6B
MTZJ-T-77-7.5A
MTZJ-T-77-9.1
MTZN-1013
R012ES-B2
R05.6ES-B1
R05.6ES-B2
R06.2ES-B2
R07.5ES-B2

MA3051L-TX

RGP02-17EL-6433

05L60

CATHODE
ANODE

L0201VR

LONG
SHORT
ANODE
CATHODE

MC-Service

SECTION 6 EXPLODED VIEWS

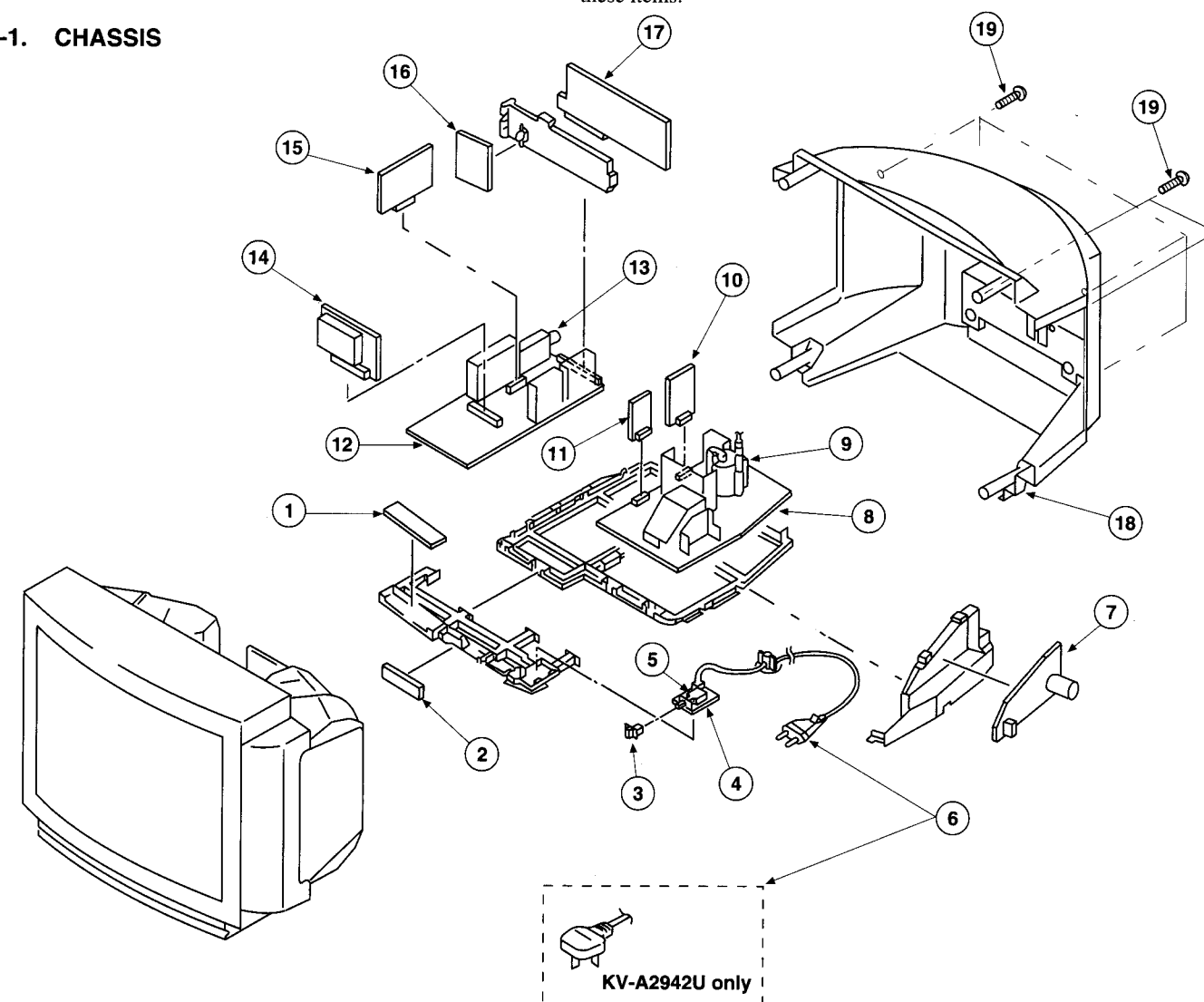
NOTE :

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and marked Δ are critical for safety. Replace only with the part number specified.

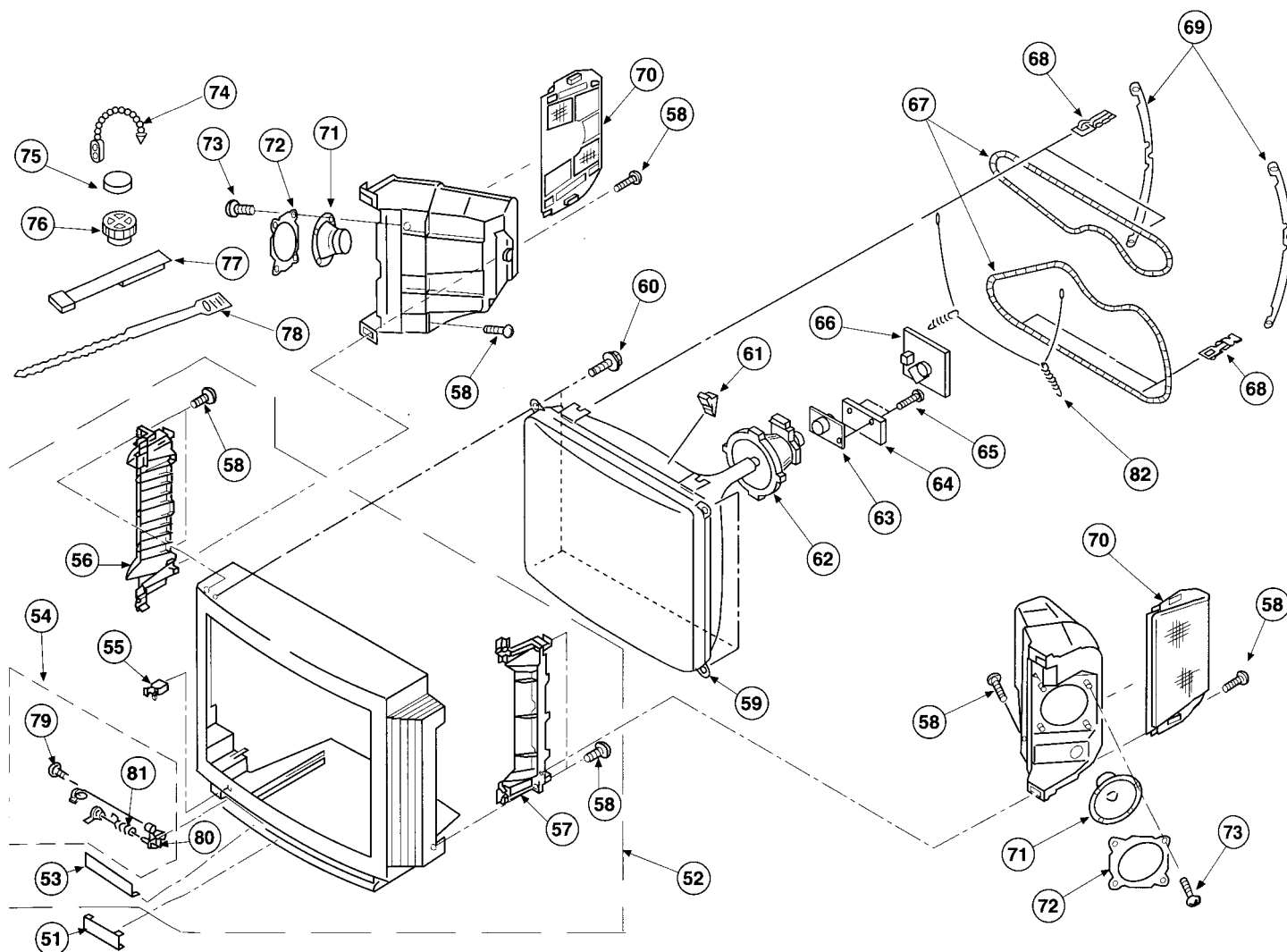
6-1. CHASSIS



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
1	*1-648-314-11	H1 BOARD		12	*A-1632-218-A	A BOARD, COMPLETE (KV-A2941A/A2941D/A2941K)	
2	*1-652-942-11	H2 BOARD			*A-1632-222-A	A BOARD, COMPLETE (KV-A2941B)	
4	*1-648-312-12	F1 BOARD			*A-1632-221-A	A BOARD, COMPLETE (KV-A2943E)	
					*A-1632-192-A	A BOARD, COMPLETE (KV-A2942U)	
				13	1-693-185-11	TUNER (UV916H) (KV-A2941A/A2941B/A2941D/A2943E/A2941K)	
					1-693-184-11	TUNER (U944C) (KV-A2942U)	
7	*A-1624-018-A	F2 BOARD, COMPLETE (KV-A2941A/A2941D)		14	*A-1635-023-A	M2 BOARD, COMPLETE	
	*A-1624-036-A	F2 BOARD, COMPLETE (KV-A2941B/A2943E/A2941K/A2942U)		15	*A-1630-249-A	A3 BOARD, COMPLETE (KV-A2941A/A2941B/A2941D/A2941K)	
8	*A-1642-097-A	D BOARD, COMPLETE			*A-1630-252-A	A3 BOARD, COMPLETE (KV-A2943E)	
10	*A-1640-109-A	D5 BOARD, COMPLETE		16	*A-1630-219-A	A3 BOARD, COMPLETE (KV-A2942U)	
11	*A-1642-102-A	D4 BOARD, COMPLETE		17	*A-1649-009-A	K1 BOARD, COMPLETE	
				18	*A-1651-064-A	J BOARD, COMPLETE	
				19	4-202-510-11	COVER, REAR	
					4-039-358-11	SCREW (4X16), (+) BV TAPPING	

6-2. PICTURE TUBE

The components identified by shading and marked **▲** are critical for safety.
Replace only with the part number specified.



MC-Service

REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
51	4-202-492-31	WINDOW, ORNAMENTAL		66	*A-1638-042-A	C BOARD, COMPLETE	
52	X-4200-138-1	CABINET ASSY (WITH BEZEL ASSY)	53" 58, 79" 81	67	▲ 1-406-807-11	COIL, DEMAGNETIZATION	
53	4-202-493-01	DOOR		68	4-202-415-01	CLIP, DGC (29")	
54	X-4031-244-1	DAMPER ASSY	79" 81	69	4-202-416-01	BAND, DGC	
55	4-392-036-01	CATCHER, PUSH		70	X-4200-136-1	GRILLE ASSY, SPEAKER	
56	*4-202-509-01	HOLDER (L), SPEAKER		71	1-544-475-21	SPEAKER	
57	*4-202-508-01	HOLDER (R), SPEAKER		72	4-202-469-01	CLAMP, SPEAKER	
58	4-039-358-01	SCREW (4x16), BV TAPPING		73	4-039-358-11	SCREW (4x16), (+) BV TAPPING	
59	▲ 8-733-853-05	PICTURE TUBE (M68LCT60X)		74	4-308-870-00	CLIP, LEAD WIRE	
60	4-036-188-01	SCREW (M), PT		75	1-452-032-00	MAGNET, DISK; 10MM Ø	
61	3-704-495-01	SPACER, DY		76	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
62	▲ 8-451-422-11	DEFLECTION YOKE (Y29GXA)		77	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	
63	▲ 1-452-509-41	NECK ASSY, PICTURE TUBE (NA-308)		78	3-701-007-00	BAND, BINDING	
64	*A-1644-040-A	VM BOARD, COMPLETE		79	4-033-184-01	SCREW, SPECIAL	
65	4-039-357-01	SCREW (3X8), (+) BV TAPPING		80	4-041-017-01	SHAFT (MAIN), DAMPER DOOR	
				81	4-041-016-01	SPRING	
				82	4-200-433-01	SPRING, EXTENSION	

ELECTRICAL PARTS LIST

SECTION 3

The components identified by shading and marked * are critical for safety.
Replace only with the part number specified.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS

MF : mF, PF : mmF

COILS

MMH : mH, μ H : μ H

F1 **F2** **A3** (KV-A2941A/A2941B)
(KV-A2941D/A2941K)

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	*1-648-312-12	F1 BOARD	*****			< TRANSFORMER >	
		< CONNECTOR >				LF661 * 1-423-688-11 TRANSFORMER, LINE FILTER (LFT)	
						LF662 * 1-424-391-11 TRANSFORMER, LINE FILTER (LFT)	
						(KV-A2941A/A2941D)	
		< FUSE >				< TRANSISTOR >	
						Q661 8-729-920-74 TRANSISTOR 2SC2412K-QR	
		< SWITCH >				< RESISTOR >	
						R663 * 1-244-945-91 CARBON 1M 5% 1/2W	
						R664 * 1-205-949-11 WIREWOUND 1.8 5% 10W	
						R665 * 1-218-265-11 METAL GLAZE 8.2M 5% 1W	
						R666 1-249-405-11 CARBON 100 5% 1/4W F	
						R667 1-249-430-11 CARBON 12K 5% 1/4W	
						R668 1-249-436-11 CARBON 39K 5% 1/4W	
						R669 * 1-205-949-11 WIREWOUND 1.8 5% 10W	
						R671 1-249-417-11 CARBON 1K 5% 1/4W F	
						< RELAY >	
						RY661 * 1-515-720-31 RELAY	
						< THERMISTOR >	
						THP661 * 1-809-827-11 THERMISTOR, POSITIVE	

						*A-1630-249-A A3 BOARD, COMPLETE (KV-A2941A/A2941B/	
						***** A2941D/A2941K)	
						< CAPACITOR >	
						C1101 1-126-101-11 ELECT 100MF 20% 16V	
						C1102 1-126-101-11 ELECT 100MF 20% 16V	
						C1103 1-163-077-91 CERAMIC CHIP 0.1MF 50V	
						C1104 1-163-077-00 CERAMIC CHIP 0.1MF 10% 25V	
						C1251 1-163-009-11 CERAMIC CHIP 0.001MF 10% 50V	
						C1252 1-163-010-11 CERAMIC CHIP 0.0012MF 10% 50V	
						C1253 1-163-014-00 CERAMIC CHIP 0.0027MF 10% 50V	
						C1254 1-163-014-00 CERAMIC CHIP 0.0027MF 10% 50V	
						C1255 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V	
						C1256 1-163-022-00 CERAMIC CHIP 0.012MF 10% 50V	
						C1257 1-163-986-00 CERAMIC CHIP 0.027MF 10% 25V	
						C1258 1-163-986-00 CERAMIC CHIP 0.027MF 10% 25V	
						C1259 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V	
						C1260 1-164-348-11 CERAMIC CHIP 0.12MF 10% 25V	
						C1261 1-163-009-11 CERAMIC CHIP 0.001MF 10% 50V	

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C1262	1-163-010-11	CERAMIC CHIP 0.0012MF	10% 50V	C3251	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
C1263	1-163-014-00	CERAMIC CHIP 0.0027MF	10% 50V	C3252	1-124-910-11	ELECT 47MF	20% 50V
C1264	1-163-014-00	CERAMIC CHIP 0.0027MF	10% 50V	C3253	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C1265	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C3255	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
C1266	1-163-022-00	CERAMIC CHIP 0.012MF	10% 50V	C3256	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C1267	1-163-986-00	CERAMIC CHIP 0.027MF	10% 25V	C3257	1-137-437-11	FILM 0.0056MF	5% 50V
C1268	1-163-986-00	CERAMIC CHIP 0.027MF	10% 25V	C3259	1-126-101-11	ELECT 100MF	20% 16V
C1269	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C3260	1-163-077-91	CERAMIC CHIP 0.1MF	50V
C1270	1-164-348-11	CERAMIC CHIP 0.12MF	10% 25V	C3264	1-124-907-11	ELECT 10MF	20% 50V
C1271	1-124-916-11	ELECT 22MF	20% 50V	C3265	1-124-907-11	ELECT 10MF	20% 50V
C1272	1-124-910-11	ELECT 47MF	20% 50V	C3266	1-124-907-11	ELECT 10MF	20% 50V
C3201	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C3267	1-130-772-00	FILM 0.22MF	5% 63V
C3202	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C3272	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C3203	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C3273	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
C3204	1-136-157-00	FILM 0.022MF	5% 50V	C3274	1-124-910-11	ELECT 47MF	20% 50V
C3205	1-136-157-00	FILM 0.022MF	5% 50V	C3275	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
C3206	1-136-165-00	FILM 0.1MF	5% 50V	C3276	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C3207	1-136-161-00	FILM 0.047MF	5% 50V	C3277	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C3208	1-163-137-00	CERAMIC CHIP 680PF	5% 50V	C3278	1-163-023-00	CERAMIC CHIP 0.015MF	10% 50V
C3209	1-136-165-00	FILM 0.1MF	5% 50V	C3279	1-163-023-00	CERAMIC CHIP 0.015MF	10% 50V
C3210	1-163-137-00	CERAMIC CHIP 680PF	5% 50V	C3280	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C3211	1-136-161-00	FILM 0.047MF	5% 50V	C3281	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C3212	1-124-907-11	ELECT 10MF	20% 50V	C3282	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C3213	1-124-907-11	ELECT 10MF	20% 50V	C3283	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C3214	1-136-165-00	FILM 0.1MF	5% 50V	C3284	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C3215	1-136-165-00	FILM 0.1MF	5% 50V	C3285	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C3216	1-124-907-11	ELECT 10MF	20% 50V	C3286	1-124-907-11	ELECT 10MF	20% 50V
C3217	1-124-907-11	ELECT 10MF	20% 50V	C3287	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C3218	1-137-368-11	FILM 0.0047MF	5% 50V	C3288	1-124-907-11	ELECT 10MF	20% 50V
C3219	1-124-916-11	ELECT 22MF	20% 63V	C3289	1-124-907-11	ELECT 10MF	20% 50V
C3220	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C3290	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C3221	1-136-169-00	FILM 0.22MF	5% 50V	C3291	1-163-018-00	CERAMIC CHIP 0.0056MF	10% 50V
C3222	1-124-927-11	ELECT 4.7MF	20% 50V	C3293	1-124-907-11	ELECT 10MF	20% 50V
C3223	1-124-927-11	ELECT 4.7MF	20% 50V	< CONNECTOR >			
C3224	1-136-169-00	FILM 0.22MF	5% 50V	CN0201	1-695-300-11	CONNECTOR, BOARD TO BOARD 20P	
C3225	1-136-169-00	FILM 0.22MF	5% 50V	CN0227	*1-564-509-11	PLUG, CONNECTOR 6P	
C3226	1-136-169-00	FILM 0.22MF	5% 50V	CN0235	*1-564-506-11	PLUG, CONNECTOR 3P	
C3227	1-136-175-00	FILM 0.68MF	5% 50V	CN0246	*1-564-506-11	PLUG, CONNECTOR 3P	
C3228	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	< DIODE >			
C3229	1-137-368-11	FILM 0.0047MF	5% 50V	D3201	8-719-110-14	DIODE RD9.1ESB3	
C3230	1-136-161-00	FILM 0.047MF	5% 50V	< FERRITE BEAD >			
C3231	1-124-911-11	ELECT 220MF	20% 50V	FB1101	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
C3232	1-124-927-11	ELECT 4.7MF	20% 50V	FB1105	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
C3233	1-136-015-00	CERAMIC CHIP 0.0033MF	50V	FB3201	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
C3234	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	< IC >			
C3235	1-163-036-00	CERAMIC CHIP 0.068MF	50V	IC1251	8-759-257-64	IC TDA7317	
C3236	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	IC3201	8-759-267-99	IC M69032P	
C3237	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	IC3202	8-759-300-71	IC HD14053BFP	
C3238	1-124-126-00	ELECT 47MF	20% 10V	IC3203	8-752-069-79	IC CXA1875M-T4	
C3239	1-163-036-00	CERAMIC CHIP 0.068MF	50V	IC3204	8-759-909-71	IC BA4558F	
C3240	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	IC3205	8-759-266-65	IC TDA6622-5	
C3241	1-163-018-00	CERAMIC CHIP 0.0056MF	10% 50V	IC3206	8-759-633-83	IC M50198P	
C3242	1-163-018-00	CERAMIC CHIP 0.0056MF	10% 50V	< COIL >			
C3243	1-163-038-00	CERAMIC CHIP 0.1MF	25V	L1101	1-408-405-00	INDUCTOR 4.7UH	
C3244	1-124-477-11	ELECT 47MF	20% 16V				
C3245	1-163-237-11	CERAMIC CHIP 27PF	5% 50V				
C3246	1-163-237-11	CERAMIC CHIP 27PF	5% 50V				
C3247	1-163-038-00	CERAMIC CHIP 0.1MF	25V				
C3248	1-124-477-11	ELECT 47MF	20% 16V				
C3250	1-163-038-00	CERAMIC CHIP 0.1MF	25V				

A3 (KV-A2941A/A2941B) (KV-A2941D/A2941K)

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
L1251	1-408-421-00	INDUCTOR	100UH	R3216	1-216-049-00	METAL GLAZE	1K 5% 1/10W
L3201	1-408-421-00	INDUCTOR	100UH	R3217	1-216-097-00	METAL GLAZE	100K 5% 1/10W
< TRANSISTOR >				R3218	1-216-198-91	METAL GLAZE	1K 5% 1/8W
Q1251	8-729-920-74	TRANSISTOR	2SC2412K-QR	R3219	1-216-198-91	METAL GLAZE	1K 5% 1/8W
Q1252	8-729-920-74	TRANSISTOR	2SC2412K-QR	R3220	1-216-699-11	METAL CHIP	100K 0.50% 1/10W
Q3203	8-729-216-22	TRANSISTOR	2SA1162-G	R3221	1-216-077-00	METAL GLAZE	15K 5% 1/10W
Q3205	8-729-920-74	TRANSISTOR	2SC2412K-QR	R3222	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
Q3206	8-729-920-74	TRANSISTOR	2SC2412K-QR	R3223	1-216-109-00	METAL GLAZE	330K 5% 1/10W
Q3207	8-729-216-22	TRANSISTOR	2SA1162-G	R3224	1-216-077-00	METAL GLAZE	15K 5% 1/10W
Q3208	8-729-920-74	TRANSISTOR	2SC2412K-QR	R3225	1-216-079-00	METAL GLAZE	18K 5% 1/10W
Q3209	8-719-918-98	TRANSISTOR	SLP253B-40	R3226	1-216-077-00	METAL GLAZE	15K 5% 1/10W
< RESISTOR >				R3227	1-216-220-00	METAL GLAZE	8.2K 5% 1/8W
JR3201	1-216-295-00	METAL GLAZE	0 5% 1/10W	R3228	1-216-013-00	METAL GLAZE	33 5% 1/10W
JR3202	1-216-295-00	METAL GLAZE	0 5% 1/10W	R3229	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
JR3203	1-216-295-00	METAL GLAZE	0 5% 1/10W	R3230	1-216-079-00	METAL GLAZE	18K 5% 1/10W
JR3204	1-216-295-00	METAL GLAZE	0 5% 1/10W	R3231	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
JR3206	1-216-295-00	METAL GLAZE	0 5% 1/10W	R3232	1-216-070-00	METAL GLAZE	7.5K 5% 1/10W
JR3208	1-216-296-91	METAL GLAZE	0 5% 1/8W	R3233	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
JR3209	1-216-296-91	METAL GLAZE	0 5% 1/8W	R3234	1-216-097-00	METAL GLAZE	100K 5% 1/10W
JR3210	1-216-296-91	METAL GLAZE	0 5% 1/8W	R3235	1-216-097-00	METAL GLAZE	100K 5% 1/10W
JR3211	1-216-296-91	METAL GLAZE	0 5% 1/8W	R3236	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R1251	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R3237	1-216-295-00	METAL GLAZE	0 5% 1/10W
R1252	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R3238	1-216-295-00	METAL GLAZE	0 5% 1/10W
R1253	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R3239	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1254	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R3240	1-216-296-91	METAL GLAZE	0 5% 1/8W
R1255	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R3241	1-216-121-00	METAL GLAZE	1M 5% 1/10W
R1256	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R3242	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1257	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R3243	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1258	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R3244	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R1259	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R3245	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R1260	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R3246	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1261	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R3247	1-216-109-00	METAL GLAZE	330K 5% 1/10W
R1262	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R3248	1-216-033-00	METAL GLAZE	220 5% 1/10W
R1263	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R3249	1-216-033-00	METAL GLAZE	220 5% 1/10W
R1264	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R3250	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1265	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R3253	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R1266	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R3254	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R1267	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R3255	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1268	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R3256	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R1269	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R3257	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R1270	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R3258	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1271	1-216-033-00	METAL GLAZE	220 5% 1/10W	R3259	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R1272	1-216-033-00	METAL GLAZE	220 5% 1/10W	R3260	1-216-109-00	METAL GLAZE	330K 5% 1/10W
R3201	1-216-033-00	METAL GLAZE	220 5% 1/10W	R3261	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R3202	1-216-033-00	METAL GLAZE	220 5% 1/10W	R3262	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R3203	1-216-041-00	METAL GLAZE	470 5% 1/10W	R3263	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R3204	1-216-041-00	METAL GLAZE	470 5% 1/10W	R3264	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R3205	1-216-070-00	METAL GLAZE	7.5K 5% 1/10W	R3265	1-216-295-00	METAL GLAZE	0 5% 1/10W
R3206	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R3266	1-216-295-00	METAL GLAZE	0 5% 1/10W
R3207	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R3267	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R3208	1-216-070-00	METAL GLAZE	7.5K 5% 1/10W	R3268	1-216-295-00	METAL GLAZE	0 5% 1/10W
R3209	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R3270	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R3210	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R3271	1-216-295-00	METAL GLAZE	0 5% 1/10W
R3211	1-216-294-00	METAL GLAZE	10M 5% 1/8W	R3272	1-216-295-00	METAL GLAZE	0 5% 1/10W
R3212	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R3275	1-216-295-00	METAL GLAZE	0 5% 1/10W
R3213	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R3277	1-216-295-00	METAL GLAZE	0 5% 1/10W
R3214	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R3278	1-216-238-91	METAL GLAZE	47K 5% 1/8W
R3215	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R3288	1-216-033-00	METAL GLAZE	220 5% 1/10W
				R3289	1-216-033-00	METAL GLAZE	220 5% 1/10W
				R3290	1-216-033-00	METAL GLAZE	220 5% 1/10W

MC-Service

**A3 (KV-A2941A/A2941B
KV-A2941D/A2941K)**

**A3 (KV-A2943E
KV-A2942U)**

REF.NO.	PART NO.	DESCRIPTION			REMARK
R3291	1-216-033-00	METAL GLAZE	220	5%	1/10W
R3292	1-216-025-00	METAL GLAZE	100	5%	1/10W
R3293	1-216-025-00	METAL GLAZE	100	5%	1/10W
R3294	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R3295	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R3296	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R3297	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R3298	1-247-807-31	CARBON	100	5%	1/4W
R3299	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R3300	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R3301	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3302	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3303	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3304	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3307	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R3308	1-216-246-91	METAL GLAZE	100K	5%	1/8W
R3309	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R3310	1-216-081-00	METAL GLAZE	22K	5%	1/10W
< CRYSTAL >					
X3201	1-567-505-11	OSCILLATOR, CRYSTAL			

	*A-1630-252-A	A3 BOARD, COMPLETE (KV-A2943E)			

	*A-1630-219-A	A3 BOARD, COMPLETE (KV-A2942U)			

< FILTER >					
BP1101	1-239-047-11	FILTER, BAND PASS (KV-A2943E)			
	1-236-238-11	FILTER, BAND PASS (KV-A2942U)			
CF1101	1-409-333-00	TRAP, CERAMIC (6.0MHZ) (KV-A2942U)			
< CAPACITOR >					
C1101	1-126-101-11	ELECT	100MF	20%	16V
C1102	1-126-101-11	ELECT	100MF	20%	16V
C1103	1-163-077-91	CERAMIC CHIP	0.1MF		50V
C1104	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V
C1105	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C1106	1-163-383-11	CERAMIC CHIP	180PF	5%	50V
C1107	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C1108	1-163-059-00	CERAMIC CHIP	0.01MF		50V
C1109	1-163-033-00	CERAMIC CHIP	0.022MF		50V
C1110	1-164-336-11	CERAMIC CHIP	0.33MF		25V
C1111	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C1112	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C1113	1-124-477-11	ELECT	47MF	20%	16V
C1114	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C1115	1-124-477-11	ELECT	47MF	20%	16V
C1116	1-106-228-00	MYLAR	0.22MF	10%	100V
C1117	1-163-081-00	CERAMIC CHIP	0.22MF		25V
C1118	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C1119	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C1120	1-163-193-00	CERAMIC CHIP	330PF	5%	50V
C1121	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C1122	1-163-081-00	CERAMIC CHIP	0.22MF		25V
C1123	1-106-228-00	MYLAR	0.22MF	10%	100V
C1124	1-124-477-11	ELECT	47MF	20%	16V
C1125	1-124-477-11	ELECT	47MF	20%	16V
C1126	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V

REF.NO.	PART NO.	DESCRIPTION	REMARK
C1127	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C1128	1-124-477-11	ELECT 47MF	20% 16V
C1129	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C1130	1-163-205-00	CERAMIC CHIP 0.001MF	10% 50V
C1131	1-163-059-00	CERAMIC CHIP 0.01MF	50V
C1132	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C1133	1-124-907-11	ELECT 10MF	20% 50V
C1134	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C1135	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C1136	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C1137	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C1138	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
C1139	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
C1140	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C1141	1-163-205-00	CERAMIC CHIP 0.001MF	5% 50V
C1142	1-163-057-00	CERAMIC CHIP 0.0068MF	50V
C1143	1-163-003-11	CERAMIC CHIP 330PF	10% 50V
C1144	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C1145	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C1146	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C1147	1-124-477-11	ELECT 47MF	20% 16V
C1148	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C1149	1-124-477-11	ELECT 47MF	20% 16V
C1150	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C1151	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C1152	1-124-477-11	ELECT 47MF	20% 16V
C1153	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
C1154	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C1155	1-124-477-11	ELECT 47MF	20% 16V
C1156	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C1157	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C1158	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C1159	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C1251	1-163-009-11	CERAMIC CHIP 0.001MF	(KV-A2942U) 10% 50V
C1252	1-163-010-11	CERAMIC CHIP 0.0012MF	10% 50V
C1253	1-163-014-00	CERAMIC CHIP 0.0027MF	10% 50V
C1254	1-163-014-00	CERAMIC CHIP 0.0027MF	10% 50V
C1255	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1256	1-163-022-00	CERAMIC CHIP 0.012MF	10% 50V
C1257	1-163-986-00	CERAMIC CHIP 0.027MF	10% 25V
C1258	1-163-986-00	CERAMIC CHIP 0.027MF	10% 25V
C1259	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1260	1-164-348-11	CERAMIC CHIP 0.12MF	10% 25V
C1261	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C1262	1-163-010-11	CERAMIC CHIP 0.0012MF	10% 50V
C1263	1-163-014-00	CERAMIC CHIP 0.0027MF	10% 50V
C1264	1-163-014-00	CERAMIC CHIP 0.0027MF	10% 50V
C1265	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1266	1-163-022-00	CERAMIC CHIP 0.012MF	10% 50V
C1267	1-163-986-00	CERAMIC CHIP 0.027MF	10% 25V
C1268	1-163-986-00	CERAMIC CHIP 0.027MF	10% 25V
C1269	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1270	1-164-348-11	CERAMIC CHIP 0.12MF	10% 25V
C1271	1-124-916-11	ELECT 22MF	20% 50V
C1272	1-124-910-11	ELECT 47MF	20% 50V
C3201	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3202	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3203	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3204	1-137-128-91	FILM 0.022MF	5% 63V

A3 (KV-A2943E KV-A2942U)

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C3205	1-137-128-91	FILM 0.022MF	5% 63V	C3272	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C3206	1-136-165-00	FILM 0.1MF	5% 50V	C3273	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
C3207	1-136-187-11	FILM 0.047MF	5% 63V	C3274	1-124-910-11	ELECT 47MF	20% 50V
C3208	1-163-137-00	CERAMIC CHIP 680PF	5% 50V	C3275	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
C3209	1-136-165-00	FILM 0.1MF	5% 50V	C3276	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C3210	1-163-137-00	CERAMIC CHIP 680PF	5% 50V	C3277	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C3211	1-136-187-11	FILM 0.047MF	5% 63V	C3278	1-163-023-00	CERAMIC CHIP 0.015MF	10% 50V
C3212	1-124-907-11	ELECT 10MF	20% 50V	C3279	1-163-023-00	CERAMIC CHIP 0.015MF	10% 50V
C3213	1-124-907-11	ELECT 10MF	20% 50V	C3280	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C3214	1-136-165-00	FILM 0.1MF	5% 50V	C3281	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C3215	1-136-165-00	FILM 0.1MF	5% 50V	C3282	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C3216	1-124-907-11	ELECT 10MF	20% 50V	C3283	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C3217	1-124-907-11	ELECT 10MF	20% 50V	C3284	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C3218	1-137-368-11	FILM 0.0047MF	5% 50V	C3285	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C3219	1-124-916-11	ELECT 22MF	20% 63V	C3286	1-124-907-11	ELECT 10MF	20% 50V
C3220	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C3287	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C3221	1-136-169-00	FILM 0.22MF	5% 50V	C3288	1-124-907-11	ELECT 10MF	20% 50V
C3222	1-124-927-11	ELECT 4.7MF	20% 50V	C3289	1-124-907-11	ELECT 10MF	20% 50V
C3223	1-124-927-11	ELECT 4.7MF	20% 50V	C3290	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C3224	1-136-169-00	FILM 0.22MF	5% 50V	< CONNECTOR >			
C3225	1-136-169-00	FILM 0.22MF	5% 50V	CN0201	1-695-300-11	CONNECTOR, BOARD TO BOARD 20P	
C3226	1-136-169-00	FILM 0.22MF	5% 50V	CN0227	*1-564-509-11	PLUG, CONNECTOR 6P	
C3227	1-136-175-00	FILM 0.68MF	5% 50V	CN0246	*1-564-506-11	PLUG, CONNECTOR 3P	
C3228	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	CN0248	*1-564-507-11	PLUG, CONNECTOR 4P	
C3229	1-137-368-11	FILM 0.0047MF	5% 50V	< DIODE >			
C3230	1-136-187-11	FILM 0.047MF	5% 63V	D1101	8-719-914-44	DIODE DAP202K	
C3231	1-124-911-11	ELECT 220MF	20% 50V	D1102	8-719-027-70	DIODE 1SV217-TPH3	
C3232	1-124-927-11	ELECT 4.7MF	20% 50V	D1103	8-719-820-71	DIODE 1SV214	
C3233	1-136-015-00	CERAMIC CHIP 0.0033MF	50V	D3201	8-719-110-14	DIODE RD9.1ESB3	
C3234	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	< FERRITE BEAD >			
C3235	1-163-036-00	CERAMIC CHIP 0.068MF	50V	FB1101	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
C3236	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB1102	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
C3237	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB1103	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
C3238	1-124-126-00	ELECT 47MF	20% 10V	FB1104	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
C3239	1-163-036-00	CERAMIC CHIP 0.068MF	50V	FB1105	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
C3240	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	< IC >			
C3241	1-163-018-00	CERAMIC CHIP 0.0056MF	10% 50V	IC1101	8-759-511-88	IC TDA8732	
C3242	1-163-018-00	CERAMIC CHIP 0.0056MF	10% 50V	IC1102	8-759-184-28	IC SAA7282-ZP	
C3243	1-163-038-00	CERAMIC CHIP 0.1MF	25V	IC1251	8-759-257-64	IC TDA7317	
C3244	1-124-477-11	ELECT 47MF	20% 16V	IC3201	8-759-267-99	IC M69032P	
C3245	1-163-237-11	CERAMIC CHIP 27PF	5% 50V	IC3202	8-759-300-71	IC HD14053BFP	
C3246	1-163-237-11	CERAMIC CHIP 27PF	5% 50V	IC3203	8-752-069-79	IC CXA1875M-T4	
C3247	1-163-038-00	CERAMIC CHIP 0.1MF	25V	IC3204	8-759-909-71	IC BA4558F	
C3248	1-124-477-11	ELECT 47MF	20% 16V	IC3205	8-759-266-65	IC TDA6622-5	
C3250	1-163-038-00	CERAMIC CHIP 0.1MF	25V	IC3206	8-759-633-83	IC M50198P	
C3251	1-163-105-00	CERAMIC CHIP 33PF	5% 50V	< COIL >			
C3252	1-124-910-11	ELECT 47MF	20% 50V	L1101	1-408-405-00	INDUCTOR 4.7UH	
C3253	1-163-038-00	CERAMIC CHIP 0.1MF	25V	L1102	1-408-405-00	INDUCTOR 4.7UH	
C3255	1-163-105-00	CERAMIC CHIP 33PF	5% 50V	L1103	1-410-119-11	INDUCTOR 1MMH	
C3256	1-163-038-00	CERAMIC CHIP 0.1MF	25V	L1104	1-410-119-11	INDUCTOR 1MMH	
C3257	1-137-437-11	FILM 0.0056MF	5% 50V	L1105	1-408-411-00	INDUCTOR 15UH (KV-A2942U)	
C3258	1-124-907-11	ELECT 10MF	20% 50V	L1251	1-408-421-00	INDUCTOR 100UH	
C3259	1-126-101-11	ELECT 100MF	20% 16V	L3201	1-408-421-00	INDUCTOR 100UH	
C3260	1-163-077-91	CERAMIC CHIP 0.1MF	50V	< TRANSISTOR >			
C3261	1-124-907-11	ELECT 10MF	20% 50V	Q1101	8-729-920-74	TRANSISTOR 2SC2412K-QR	
C3263	1-124-907-11	ELECT 10MF	20% 50V				
C3264	1-124-907-11	ELECT 10MF	20% 50V				
C3265	1-124-907-11	ELECT 10MF	20% 50V				
C3266	1-124-907-11	ELECT 10MF	20% 50V				
C3267	1-130-772-00	FILM 0.22MF	5% 63V				

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A3 (KV-A2943E)
(KV-A2942U)

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q1102	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1134	1-216-212-00	METAL GLAZE 3.9K 5%	1/8W
Q1103	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1135	1-216-081-00	METAL GLAZE 22K 5%	1/10W
Q1104	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q1105	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1136	1-216-081-00	METAL GLAZE 22K 5%	1/10W
				R1137	1-216-095-00	METAL GLAZE 82K 5%	1/10W
Q1106	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1138	1-216-097-00	METAL GLAZE 100K 5%	1/10W
Q1107	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1139	1-216-005-00	METAL GLAZE 15 5%	1/10W
Q1108	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1140	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
Q1251	8-729-920-74	TRANSISTOR 2SC2412K-QR					
Q1252	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1141	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
				R1142	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q3203	8-729-216-22	TRANSISTOR 2SA1162-G		R1143	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q3205	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1144	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q3206	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1145	1-216-001-00	METAL GLAZE 10 5%	1/10W
Q3207	8-729-216-22	TRANSISTOR 2SA1162-G					
Q3208	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1146	1-216-049-00	METAL GLAZE 1K 5%	1/10W
				R1147	1-216-045-00	METAL GLAZE 680 5%	1/10W
Q3209	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1148	1-216-049-00	METAL GLAZE 1K 5%	1/10W
				R1149	1-216-001-00	METAL GLAZE 10 5%	1/10W
				R1150	1-216-045-00	METAL GLAZE 680 5%	1/10W
		< RESISTOR >					
JR3201	1-216-295-91	METAL GLAZE 0 5%	1/10W	R1151	1-216-049-00	METAL GLAZE 1K 5%	1/10W
JR3202	1-216-295-91	METAL GLAZE 0 5%	1/10W	R1152	1-216-049-00	METAL GLAZE 1K 5%	1/10W
JR3203	1-216-295-91	METAL GLAZE 0 5%	1/10W	R1153	1-216-049-00	METAL GLAZE 1K 5%	1/10W
JR3204	1-216-295-91	METAL GLAZE 0 5%	1/10W	R1154	1-216-041-00	METAL GLAZE 470 5%	1/10W
JR3206	1-216-295-91	METAL GLAZE 0 5%	1/10W	R1251	1-216-089-91	METAL GLAZE 47K 5%	1/10W
JR3208	1-216-296-91	METAL GLAZE 0 5%	1/8W	R1252	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
JR3209	1-216-296-91	METAL GLAZE 0 5%	1/8W	R1253	1-216-089-91	METAL GLAZE 47K 5%	1/10W
JR3210	1-216-296-91	METAL GLAZE 0 5%	1/8W	R1254	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
JR3211	1-216-296-91	METAL GLAZE 0 5%	1/8W	R1255	1-216-089-91	METAL GLAZE 47K 5%	1/10W
JR3212	1-216-296-91	METAL GLAZE 0 5%	1/8W	R1256	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R1101	1-216-188-00	METAL GLAZE 390 5%	1/8W	R1257	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R1102	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R1258	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R1103	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R1259	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R1104	1-216-041-00	METAL GLAZE 470 5%	1/10W	R1260	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R1105	1-216-005-00	METAL GLAZE 15 5%	1/10W	R1261	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R1106	1-216-185-11	METAL GLAZE 300 5%	1/8W	R1262	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R1107	1-216-042-00	METAL GLAZE 510 5%	1/10W	R1263	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R1108	1-216-063-00	METAL GLAZE 3.9K 5%	1/10W	R1264	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R1109	1-216-202-00	METAL GLAZE 1.5K 5%	1/8W	R1265	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R1110	1-216-196-00	METAL GLAZE 820 5%	1/8W	R1266	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R1111	1-216-041-00	METAL GLAZE 470 5%	1/10W	R1267	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R1112	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W	R1268	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R1113	1-216-001-00	METAL GLAZE 10 5%	1/10W	R1269	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R1114	1-216-105-00	METAL GLAZE 220K 5%	1/10W	R1270	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R1115	1-216-121-00	METAL GLAZE 1M 5%	1/10W	R1271	1-216-033-00	METAL GLAZE 220 5%	1/10W
R1116	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R1272	1-216-033-00	METAL GLAZE 220 5%	1/10W
R1117	1-216-097-00	METAL GLAZE 100K 5%	1/10W	R3201	1-216-033-00	METAL GLAZE 220 5%	1/10W
R1118	1-216-097-00	METAL GLAZE 100K 5%	1/10W	R3202	1-216-033-00	METAL GLAZE 220 5%	1/10W
R1119	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R3203	1-216-041-00	METAL GLAZE 470 5%	1/10W
R1120	1-216-232-00	METAL GLAZE 27K 5%	1/8W	R3204	1-216-041-00	METAL GLAZE 470 5%	1/10W
R1121	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R3205	1-216-070-00	METAL GLAZE 7.5K 5%	1/10W
R1122	1-216-158-00	METAL GLAZE 22 5%	1/8W	R3206	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R1123	1-216-158-00	METAL GLAZE 22 5%	1/8W	R3207	1-216-077-00	METAL GLAZE 15K 5%	1/10W
R1124	1-216-089-91	METAL GLAZE 47K 5%	1/10W	R3208	1-216-070-00	METAL GLAZE 7.5K 5%	1/10W
R1125	1-216-097-00	METAL GLAZE 100K 5%	1/10W	R3209	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R1126	1-216-218-00	METAL GLAZE 6.8K 5%	1/8W	R3210	1-216-077-00	METAL GLAZE 15K 5%	1/10W
R1127	1-216-097-00	METAL GLAZE 100K 5%	1/10W	R3211	1-216-294-00	METAL GLAZE 10M 5%	1/8W
R1128	1-216-089-91	METAL GLAZE 47K 5%	1/10W	R3212	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R1129	1-216-089-91	METAL GLAZE 47K 5%	1/10W	R3213	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R1130	1-216-246-91	METAL GLAZE 100K 5%	1/8W	R3214	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1131	1-216-218-00	METAL GLAZE 6.8K 5%	1/8W	R3215	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1132	1-216-097-00	METAL GLAZE 100K 5%	1/10W	R3216	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R1133	1-216-089-91	METAL GLAZE 47K 5%	1/10W	R3217	1-216-097-00	METAL GLAZE 100K 5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION	REMARK		
R3293	1-216-025-00	METAL GLAZE	100	5%	1/10W
R3294	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R3295	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R3296	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R3297	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R3298	1-247-807-31	CARBON	100	5%	1/4W
R3299	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R3300	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R3301	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3302	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3303	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3304	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R3307	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R3308	1-216-246-91	METAL GLAZE	100K	5%	1/8W
R3309	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R3310	1-216-081-00	METAL GLAZE	22K	5%	1/10W
< CRYSTAL >					
X1101	1-579-689-21	VIBRATOR, CRYSTAL			
X1102	1-579-282-21	VIBRATOR, CRYSTAL (KV-A2943E)			
	1-579-283-11	VIBRATOR, CRYSTAL (KV-A2942U)			
X3201	1-567-505-11	OSCILLATOR, CRYSTAL			

	*A-1632-218-A	A BOARD, COMPLETE (KV-A2941A/A2941D/ ***** A2941K)			
	*A-1632-222-A	A BOARD, COMPLETE (KV-A2941B) *****			
	*A-1632-221-A	A BOARD, COMPLETE (KV-A2943E) *****			
	*A-1632-192-A	A BOARD, COMPLETE (KV-A2942U) *****			
	4-200-001-01	HOLDER, IC			
	4-201-023-01	SPACER, INSULATING			
	4-812-134-00	RIVET NYLON, 3.5			
< CAPACITOR >					
C071	1-126-108-11	ELECT	56MF	20%	16V
C072	1-124-120-11	ELECT	220MF	20%	16V
C074	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C102	1-126-103-11	ELECT	470MF	20%	16V
C103	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C104	1-124-477-11	ELECT	47MF	20%	16V
C105	1-124-916-11	ELECT	22MF	20%	50V
C106	1-124-927-11	ELECT	4.7MF	20%	50V
C110	1-124-478-11	ELECT	100MF	20%	25V
C120	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C201	1-130-489-00	FILM	0.033MF	5%	50V
C202	1-130-489-00	FILM	0.033MF	5%	50V
C203	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C204	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C205	1-124-907-11	ELECT	10MF	20%	50V
C206	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C207	1-137-613-11	FILM	0.0018MF	2%	100V
C208	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C209	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C210	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C213	1-163-023-00	CERAMIC CHIP	0.015MF	10%	50V
C214	1-163-023-00	CERAMIC CHIP	0.015MF	10%	50V
C215	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C216	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C319	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C217	1-124-925-11	ELECT 2.2MF	20% 50V	C320	1-124-477-11	ELECT 47MF	20% 16V
C218	1-124-925-11	ELECT 2.2MF	20% 50V	C321	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C219	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V	C322	1-124-916-11	ELECT 22MF	20% 50V
C220	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V	C323	1-163-135-00	CERAMIC CHIP 560PF	5% 50V
C221	1-124-925-11	ELECT 2.2MF	20% 50V	C324	1-124-477-11	ELECT 47MF	20% 16V
C222	1-124-925-11	ELECT 2.2MF	20% 50V	C325	1-163-111-00	CERAMIC CHIP 56PF	5% 50V
C223	1-136-177-00	FILM 1MF	5% 50V	C333	1-102-228-00	CERAMIC 470PF	10% 500V (KV-A2941B)
C224	1-136-177-00	FILM 1MF	5% 50V	C341	1-163-077-00	CERAMIC CHIP 0.1MF	10% 25V
C225	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V	C342	1-163-077-00	CERAMIC CHIP 0.1MF	10% 25V
C226	1-163-007-11	CERAMIC CHIP 680PF	10% 50V	C343	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C227	1-124-907-11	ELECT 10MF	20% 50V	C344	1-162-638-11	CERAMIC CHIP 1MF	16V
C228	1-124-907-11	ELECT 10MF	20% 50V	C345	1-164-346-11	CERAMIC CHIP 1MF	16V
C229	1-124-478-11	ELECT 100MF	20% 25V	C346	1-124-916-11	ELECT 22MF	20% 50V
C230	1-124-478-11	ELECT 100MF	20% 25V	C347	1-162-638-11	CERAMIC CHIP 1MF	16V
C231	1-164-346-11	CERAMIC CHIP 1MF	16V	C348	1-164-346-11	CERAMIC CHIP 1MF	16V
C232	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C349	1-164-346-11	CERAMIC CHIP 1MF	16V
C233	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C350	1-124-907-11	ELECT 10MF	20% 50V
C234	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	C351	1-124-443-00	ELECT 100MF	20% 10V
C235	1-130-772-00	FILM 0.22MF	5% 63V	C353	1-164-346-11	CERAMIC CHIP 1MF	16V
C236	1-124-618-11	ELECT 2200MF	20% 35V	C354	1-164-346-11	CERAMIC CHIP 1MF	16V
C237	1-124-618-11	ELECT 2200MF	20% 35V	C355	1-162-638-11	CERAMIC CHIP 1MF	16V
C238	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	C356	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C239	1-130-772-00	FILM 0.22MF	5% 63V	C357	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V
C240	1-124-916-11	ELECT 22MF	20% 50V	C358	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V
C241	1-124-916-11	ELECT 22MF	20% 50V	C359	1-124-907-11	ELECT 10MF	20% 50V
C242	1-124-903-11	ELECT 1MF	20% 50V	C360	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
C244	1-164-346-11	CERAMIC CHIP 1MF (KV-A2941A/A2941B/A2941D/A2943E/A2941K)	16V	C361	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
	1-164-232-11	CERAMIC CHIP 0.01MF (KV-A2942U)	10% 50V	C362	1-130-772-00	FILM 0.22MF	5% 63V
C248	1-163-185-00	CERAMIC CHIP 150PF	5% 50V	C363	1-124-907-11	ELECT 10MF	20% 50V
C249	1-163-129-00	CERAMIC CHIP 330PF	5% 50V	C365	1-124-120-11	ELECT 220MF	20% 16V
C251	1-124-282-00	ELECT 22MF	20% 16V	C366	1-124-903-11	ELECT 1MF	20% 50V
C254	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	C369	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C255	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	C401	1-164-005-11	CERAMIC CHIP 0.47MF	16V
C256	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	C402	1-104-792-51	ELECT 33MF	20% 16V
C257	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	C403	1-162-637-11	CERAMIC CHIP 0.47MF	16V
C299	1-164-337-11	CERAMIC CHIP 2.2MF (KV-A2941A/A2941D/A2943E/A2941K/A2942U)	16V	C411	1-164-005-11	CERAMIC CHIP 0.47MF	25V
	1-164-346-11	CERAMIC CHIP 1MF (KV-A2941B)	16V	C412	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C301	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C421	1-124-477-11	ELECT 47MF	20% 16V
C302	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C422	1-124-477-11	ELECT 47MF	20% 16V
C303	1-164-337-11	CERAMIC CHIP 2.2MF	16V	C423	1-101-004-00	CERAMIC 0.01MF	50V
C304	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C424	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C305	1-163-096-00	CERAMIC CHIP 13PF	5% 50V	C425	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C306	1-163-097-00	CERAMIC CHIP 15PF	5% 50V	C426	1-124-477-11	ELECT 47MF	20% 16V
C307	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C427	1-164-346-11	CERAMIC CHIP 1MF	16V
C308	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C428	1-164-346-11	CERAMIC CHIP 1MF	16V
C309	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C429	1-124-119-00	ELECT 330MF	20% 16V
C310	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C574	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C311	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C575	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V
C312	1-124-477-11	ELECT 47MF	20% 16V	C576	1-163-075-00	CERAMIC CHIP 0.047MF	10% 25V
C313	1-163-077-91	CERAMIC CHIP 0.1MF	50V	C581	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C314	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C582	1-124-916-11	ELECT 22MF	20% 50V
C315	1-124-477-11	ELECT 47MF	20% 16V	C583	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C316	1-163-077-91	CERAMIC CHIP 0.1MF	50V	C585	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C317	1-163-103-00	CERAMIC CHIP 27PF	5% 50V	C586	1-163-063-00	CERAMIC CHIP 0.022MF	10% 50V
C318	1-163-103-00	CERAMIC CHIP 27PF	5% 50V	C587	1-124-903-11	ELECT 1MF	20% 50V
				C588	1-164-346-11	CERAMIC CHIP 1MF	16V
				C589	1-124-478-11	ELECT 100MF	20% 25V
				C590	1-124-916-11	ELECT 22MF	20% 50V

A

The components identified by shading and marked **A** are critical for safety.
Replace only with the part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
C591	1-124-925-11	ELECT 2.2MF	20% 50V
C592	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C593	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C595	1-163-109-00	CERAMIC CHIP 47PF	5% 50V
C599	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C644	1-124-916-11	ELECT 22MF	20% 50V
C681	1-124-478-11	ELECT 100MF	20% 25V
C682	1-126-516-11	ELECT 120MF	20% 16V
C683	1-124-478-11	ELECT 100MF	20% 25V
C685	1-124-478-11	ELECT 100MF	20% 25V
C686	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C687	1-124-916-11	ELECT 22MF	20% 50V
< FILTER >			
CF581	1-577-611-11	OSCILALTOR, CERAMIC	
< CONNECTOR >			
CN0001	*1-568-880-51	PIN, CONNECTOR 5P	
CN0101	1-695-297-11	CONNECTOR, BOARD TO BOARD 20P	
CN0103	1-564-511-11	PLUG, CONNECTOR 8P	
CN0104	1-564-511-11	PLUG, CONNECTOR 8P	
CN0105	*1-568-880-51	PIN, CONNECTOR 5P	
CN0106	*1-568-880-51	PIN, CONNECTOR 5P	
CN0107	*1-568-879-11	PIN, CONNECTOR 4P	
CN0108	*1-568-878-51	PIN, CONNECTOR 3P	
CN0109	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P	
CN0110	*1-568-879-11	PIN, CONNECTOR 4P	
CN0113	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
CN0119	*1-568-879-11	PIN, CONNECTOR 4P	
CN0127	*1-564-509-11	PLUG, CONNECTOR 6P	
CN0149	*1-568-879-11	PIN, CONNECTOR 4P	
CN5108	*1-564-513-11	PLUG, CONNECTOR 10P	
< DIODE >			
D068	8-719-914-44	DIODE DAP202K	
D069	8-719-914-44	DIODE DAP202K	
D071	8-719-109-89	DIODE RD5.6ESB2	
D073	8-719-109-89	DIODE RD5.6ESB2	
D075	8-719-914-43	DIODE DAN202K	
D077	8-719-914-43	DIODE DAN202K	
D078	8-719-109-89	DIODE RD5.6ESB2	
D079	8-719-109-89	DIODE RD5.6ESB2	
D101	8-719-982-27	DIODE MTZJ-33C	
D206	8-719-914-43	DIODE DAN202K	
D207	8-719-921-89	DIODE MTZJ-13C	
D208	8-719-901-33	DIODE 1SS133	
D209	8-719-901-33	DIODE 1SS133	
D210	8-719-901-33	DIODE 1SS133	
D211	8-719-901-33	DIODE 1SS133	
D212	8-719-901-33	DIODE 1SS133	
D213	8-719-914-43	DIODE DAN202K	
D214	8-719-914-42	DIODE DA204K	
D215	8-719-914-42	DIODE DA204K (KV-A2941B)	
D216	8-719-914-42	DIODE DA204K (KV-A2941B)	
D301	8-719-914-43	DIODE DAN202K	
D304	8-719-109-89	DIODE RD5.6ESB2	
D305	8-719-914-43	DIODE DAN202K	
D306	8-719-914-43	DIODE DAN202K	
D307	8-719-914-43	DIODE DAN202K	
D308	8-719-914-42	DIODE DA204K	

REF.NO.	PART NO.	DESCRIPTION	REMARK
D311	8-719-914-42	DIODE DA204K	
D312	8-719-914-44	DIODE DAP202K	
D313	8-719-914-43	DIODE DAN202K	
D314	8-719-914-43	DIODE DAN202K	
D381	8-719-110-03	DIODE RD7.5ESB2	
D401	8-719-921-69	DIODE MTZJ-9.1	
D403	8-719-921-69	DIODE MTZJ-9.1	
D405	8-719-921-69	DIODE MTZJ-9.1	
D406	8-719-921-69	DIODE MTZJ-9.1	
D407	8-719-921-69	DIODE MTZJ-9.1	
D571	8-719-914-42	DIODE DA204K	
D681	8-719-921-75	DIODE MTZN-10B	
D683	8-719-914-44	DIODE DAP202K	
< IC >			
IC072	8-759-184-27	IC ST24C16CB1	
IC201	8-759-266-64	IC TDA6612-5 (KV-A2941A/A2941B/A2941D/A2943E/A2941K)	
	8-759-266-65	IC TDA6622-5 (KV-A2942U)	
IC202	8-759-502-21	IC TDA2822M	
IC251	8-759-072-99	IC TDA2052	
IC261	8-759-072-99	IC TDA2052	
IC301	8-759-189-90	IC TDA9145/N2B	
IC302	8-759-084-91	IC TDA4661/V2	
IC304	8-752-056-54	IC CXA1587S	
IC401	8-752-068-46	IC CXA1855S	
IC402	8-759-073-00	IC TEA2114	
IC681	8-759-072-98	IC TDA8138A	
	4-202-373-01	SPRING, IC (IC681)	
IC684	8-759-701-59	IC NJM78M09FA	
IC685	8-759-510-52	IC TEA7605	
< IF BLOCK >			
IFB101	1-466-733-11	IF BLOCK (IFH-389) (KV-A2941A/A2941D/A2943E/A2941K)	
	1-466-735-11	IF BLOCK (IFH-389F) (KV-A2941B)	
	1-466-734-11	IF BLOCK (IFH-395) (KV-A2942U)	
< COIL >			
L101	1-412-546-41	INDUCTOR 560UH	
L102	1-408-413-00	INDUCTOR 22UH	
L201	1-407-500-00	INDUCTOR 4.7MMH	
L307	1-408-405-00	INDUCTOR 4.7UH	
L309	1-408-411-00	INDUCTOR 15UH	
L575	1-408-397-00	INDUCTOR 1UH	
L611	1-412-539-41	INDUCTOR 150UH	
L681	1-412-539-41	INDUCTOR 150UH	
< IC LINK >			
PS681	A 1-532-605-91	LINK, IC 0.4A (ICP-N10)	
PS682	A 1-532-605-91	LINK, IC 0.4A (ICP-N10)	
< TRANSISTOR >			
Q071	8-729-901-05	TRANSISTOR DTA124EK	
Q101	8-729-216-22	TRANSISTOR 2SA1162-G	
Q102	8-729-901-00	TRANSISTOR DTC124EK	
Q103	8-729-900-53	TRANSISTOR DTC114EK	
Q201	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q202	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q203	8-729-920-74	TRANSISTOR 2SC2412K-QR	

MC-Service



REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
Q204	8-729-216-22	TRANSISTOR 2SA1162-G		JR139	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q205	8-729-216-22	TRANSISTOR 2SA1162-G		JR140	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q206	8-729-216-22	TRANSISTOR 2SA1162-G		JR141	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q207	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR142	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q209	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR143	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q210	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR144	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q303	8-729-216-22	TRANSISTOR 2SA1162-G		JR151	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q304	8-729-900-53	TRANSISTOR DTC114EK		JR152	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q306	8-729-216-22	TRANSISTOR 2SA1162-G		JR153	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q308	8-729-216-22	TRANSISTOR 2SA1162-G		JR201	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q309	8-729-931-02	TRANSISTOR 2SC2413KQ		JR202	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q311	8-729-901-06	TRANSISTOR DTA144EK		JR203	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q312	8-729-900-53	TRANSISTOR DTC114EK		JR204	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q313	8-729-216-22	TRANSISTOR 2SA1162-G		JR205	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q314	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR206	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q315	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR207	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q317	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR208	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q401	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR209	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q402	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR210	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q403	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR211	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q581	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR212	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q582	8-729-216-22	TRANSISTOR 2SA1162-G		JR213	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q583	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR214	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q610	8-729-140-97	TRANSISTOR 2SB734-34		JR215	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q681	8-729-109-53	TRANSISTOR 2SD795A-P		JR216	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q682	8-729-900-53	TRANSISTOR DTC114EK		JR217	1-216-296-91	METAL GLAZE 0 5% 1/8W	
< RESISTOR >				JR218	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR102	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR219	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR104	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR220	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR105	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR221	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR107	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR222	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR110	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR223	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR111	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR224	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR112	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR225	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR113	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR226	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR114	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR227	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR115	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR228	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR116	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR230	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR117	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR231	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR118	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR232	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR119	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR233	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR120	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR234	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR121	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR235	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR122	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR236	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR123	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR237	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR125	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR238	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR126	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR240	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR127	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR241	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR128	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR242	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR129	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR243	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR130	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR245	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR131	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR247	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR132	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR248	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR133	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR250	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR134	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR251	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR135	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR252	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR136	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR253	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR137	1-216-295-91	METAL GLAZE 0 5% 1/10W		JR254	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR138	1-216-296-91	METAL GLAZE 0 5% 1/8W		JR255	1-216-296-91	METAL GLAZE 0 5% 1/8W	
				JR258	1-216-296-91	METAL GLAZE 0 5% 1/8W	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
JR271	1-216-295-91	METAL GLAZE	0 5% 1/10W	R252	1-216-073-00	METAL GLAZE	10K 5% 1/10W
JR272	1-216-295-91	METAL GLAZE	0 5% 1/10W	R253	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R071	1-216-041-00	METAL GLAZE	470 5% 1/10W	R254	1-216-252-00	METAL GLAZE	180K 5% 1/8W
R072	1-216-033-00	METAL GLAZE	220 5% 1/10W	R255	1-216-252-00	METAL GLAZE	180K 5% 1/8W
R073	1-216-033-00	METAL GLAZE	220 5% 1/10W	R256	1-249-409-11	CARBON	220 5% 1/4W
R074	1-216-198-91	METAL GLAZE	1K 5% 1/8W	R257	1-249-409-11	CARBON	220 5% 1/4W
R076	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R258	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R077	1-216-025-00	METAL GLAZE	100 5% 1/10W	R259	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R101	1-216-025-00	METAL GLAZE	100 5% 1/10W	R260	1-216-212-00	METAL GLAZE	3.9K 5% 1/8W
R102	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R293	1-216-075-00	METAL GLAZE	12K 5% 1/10W (KV-A2941B)
R103	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R295	1-216-295-91	METAL GLAZE	0 5% 1/10W
R105	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R296	1-216-037-00	METAL GLAZE	330 5% 1/10W (KV-A2941B)
R108	1-216-230-00	METAL GLAZE	22K 5% 1/8W	R297	1-216-027-00	METAL GLAZE	120 5% 1/10W (KV-A2941B)
R115	1-216-210-00	METAL GLAZE	3.3K 5% 1/8W	R301	1-216-041-00	METAL GLAZE	470 5% 1/10W
R201	1-216-653-11	METAL CHIP	1.2K 0.50% 1/10W	R302	1-216-041-00	METAL GLAZE	470 5% 1/10W
R202	1-216-653-11	METAL CHIP	1.2K 0.50% 1/10W	R303	1-216-174-00	METAL GLAZE	100 5% 1/8W
R203	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R304	1-216-174-00	METAL GLAZE	100 5% 1/8W
R204	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R305	1-216-035-00	METAL GLAZE	270 5% 1/10W
R205	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R306	1-216-035-00	METAL GLAZE	270 5% 1/10W
R206	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R307	1-216-075-00	METAL GLAZE	12K 5% 1/10W
R207	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R308	1-216-121-00	METAL GLAZE	1M 5% 1/10W
R208	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R309	1-216-001-00	METAL GLAZE	10 5% 1/10W
R209	1-249-377-11	CARBON	0.47 5% 1/4W F	R310	1-216-001-00	METAL GLAZE	10 5% 1/10W
R210	1-247-734-11	CARBON	39 5% 1/2W	R311	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R211	1-247-734-11	CARBON	39 5% 1/2W	R312	1-249-413-11	CARBON	470 5% 1/4W
R212	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R313	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R213	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R314	1-249-409-11	CARBON	220 5% 1/4W
R214	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R315	1-249-409-11	CARBON	220 5% 1/4W
R215	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R316	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R216	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R318	1-216-041-00	METAL GLAZE	470 5% 1/10W
R217	1-216-045-00	METAL GLAZE	680 5% 1/10W	R319	1-249-413-11	CARBON	470 5% 1/4W
R218	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R322	1-216-041-00	METAL GLAZE	470 5% 1/10W
R221	1-212-849-00	FUSIBLE	4.7 5% 1/4W F	R324	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R222	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R325	1-216-041-00	METAL GLAZE	470 5% 1/10W
R223	1-216-045-00	METAL GLAZE	680 5% 1/10W	R326	1-216-295-91	METAL GLAZE	0 5% 1/10W (KV-A2941B)
R224	1-249-433-11	CARBON	22K 5% 1/4W	R328	1-216-025-00	METAL GLAZE	100 5% 1/10W
R225	1-212-849-00	FUSIBLE	4.7 5% 1/4W F	R329	1-216-023-00	METAL GLAZE	82 5% 1/10W
R226	1-249-412-11	CARBON	390 5% 1/4W	R330	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R227	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R331	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R228	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R333	1-216-182-00	METAL GLAZE	220 5% 1/8W
R229	1-216-039-00	METAL GLAZE	390 5% 1/10W	R334	1-216-182-00	METAL GLAZE	220 5% 1/8W
R230	1-216-246-91	METAL GLAZE	100K 5% 1/8W	R336	1-216-029-00	METAL GLAZE	150 5% 1/10W
R231	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R337	1-216-041-00	METAL GLAZE	470 5% 1/10W
R232	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R338	1-216-035-00	METAL GLAZE	270 5% 1/10W
R233	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R339	1-216-025-00	METAL GLAZE	100 5% 1/10W
R234	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R340	1-216-025-00	METAL GLAZE	100 5% 1/10W
R235	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R341	1-216-025-00	METAL GLAZE	100 5% 1/10W
R236	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R342	1-216-033-00	METAL GLAZE	220 5% 1/10W
R237	1-216-025-00	METAL GLAZE	100 5% 1/10W	R343	1-216-022-00	METAL GLAZE	75 5% 1/10W
R238	1-216-025-00	METAL GLAZE	100 5% 1/10W	R344	1-216-022-00	METAL GLAZE	75 5% 1/10W
R241	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R345	1-216-171-00	METAL GLAZE	75 5% 1/8W
R242	1-216-214-00	METAL GLAZE	4.7K 5% 1/8W	R346	1-216-022-00	METAL GLAZE	75 5% 1/10W
R244	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R347	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R245	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R351	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R246	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R352	1-216-033-00	METAL GLAZE	220 5% 1/10W
R247	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R354	1-216-033-00	METAL GLAZE	220 5% 1/10W
R248	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R355	1-216-033-00	METAL GLAZE	220 5% 1/10W
R249	1-216-045-00	METAL GLAZE	680 5% 1/10W				
R250	1-216-095-00	METAL GLAZE	82K 5% 1/10W				
R251	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				

A

IF (KV-A2941A/A2941D
KV-A2943E/A2941K)

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R356	1-216-033-00	METAL GLAZE	220 5% 1/10W	R588	1-216-101-00	METAL GLAZE 150K 5% 1/10W	
R357	1-216-041-00	METAL GLAZE	470 5% 1/10W	R589	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R358	1-216-031-00	METAL GLAZE	180 5% 1/10W	R590	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R359	1-216-033-00	METAL GLAZE	220 5% 1/10W	R591	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R360	1-216-033-00	METAL GLAZE	220 5% 1/10W	R592	1-216-232-00	METAL GLAZE 27K 5% 1/8W	
R361	1-216-033-00	METAL GLAZE	220 5% 1/10W	R593	1-216-673-11	METAL CHIP 8.2K 0.50% 1/10W	
R362	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R594	1-216-663-11	METAL CHIP 3.3K 0.50% 1/10W	
R366	1-216-236-11	METAL GLAZE	39K 5% 1/8W	R595	1-216-643-11	METAL CHIP 470 0.50% 1/10W	
R376	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R596	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R377	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W	R597	1-216-230-00	METAL GLAZE 22K 5% 1/8W	
R378	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R598	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R379	1-216-206-00	METAL GLAZE	2.2K 5% 1/8W	R600	1-216-174-00	METAL GLAZE 100 5% 1/8W	
R380	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R616	1-216-184-00	METAL GLAZE 270 5% 1/8W	
R381	1-216-164-00	METAL GLAZE	39 5% 1/8W	R619	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
R382	1-216-164-00	METAL GLAZE	39 5% 1/8W	R628	1-249-413-11	CARBON 470 5% 1/4W	
R383	1-216-164-00	METAL GLAZE	39 5% 1/8W	R632	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R385	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R681	1-216-541-00	METAL OXIDE 4.3 5% 3W F	
R386	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R682	1-249-415-11	CARBON 680 5% 1/4W	
R387	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R683	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R388	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R2219	1-216-174-00	METAL GLAZE 100 5% 1/8W	
R389	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R2220	1-216-174-00	METAL GLAZE 100 5% 1/8W	
R390	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R2221	1-216-174-00	METAL GLAZE 100 5% 1/8W	
R391	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R2222	1-216-174-00	METAL GLAZE 100 5% 1/8W	
R392	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	< TUNER >			
R393	1-216-073-00	METAL GLAZE	10K 5% 1/10W	TU101	1-693-185-11	TUNER (UV916H)	
R394	1-216-081-00	METAL GLAZE	22K 5% 1/10W		(KV-A2941A/A2941B/A2941D/A2943E/A2941K)		
R395	1-216-091-00	METAL GLAZE	56K 5% 1/10W		1-693-184-11	TUNER (U944C) (KV-A2942U)	
R396	1-216-081-00	METAL GLAZE	22K 5% 1/10W	< CRYSTAL >			
R401	1-216-171-00	METAL GLAZE	75 5% 1/8W	X301	1-567-504-11	OSCILLATOR, CRYSTAL	
R402	1-216-158-00	METAL GLAZE	22 5% 1/8W	X302	1-567-505-11	OSCILLATOR, CRYSTAL	
R403	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****			
R404	1-216-158-00	METAL GLAZE	22 5% 1/8W		1-466-733-11	IF BLOCK (IFH-389) (KV-A2941A/A2941D/ A2943E/A2941K)	
R405	1-216-025-00	METAL GLAZE	100 5% 1/10W	< CAPACITOR >			
R406	1-216-158-00	METAL GLAZE	22 5% 1/8W	C101	1-163-121-00	CERAMIC CHIP 150PF 5% 50V	
R407	1-216-025-00	METAL GLAZE	100 5% 1/10W	C102	1-164-222-11	CERAMIC CHIP 0.22MF 25V	
R408	1-216-093-00	METAL GLAZE	68K 5% 1/10W	C103	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
R410	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	C104	1-164-232-11	CERAMIC CHIP 0.01F 10% 50V	
R411	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	C105	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
R412	1-216-022-00	METAL GLAZE	75 5% 1/10W	C106	1-124-477-11	ELECT 47MF 20% 16V	
R413	1-216-022-00	METAL GLAZE	75 5% 1/10W	C107	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
R414	1-216-022-00	METAL GLAZE	75 5% 1/10W	C108	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
R416	1-216-113-00	METAL GLAZE	470K 5% 1/10W	C109	1-164-232-11	CERAMIC CHIP 0.01F 10% 50V	
R417	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	C112	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
R419	1-216-113-00	METAL GLAZE	470K 5% 1/10W	C113	1-164-101-00	CERAMIC CHIP 22PF 5% 50V	
R420	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	C114	1-124-477-11	ELECT 47MF 20% 16V	
R424	1-216-025-00	METAL GLAZE	100 5% 1/10W	C115	1-164-232-11	CERAMIC CHIP 0.01F 10% 50V	
R425	1-216-025-00	METAL GLAZE	100 5% 1/10W	C116	1-164-346-11	CERAMIC CHIP 1MF 16V	
R428	1-249-393-11	CARBON	10 5% 1/4W F	C118	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
R574	1-216-041-00	METAL GLAZE	470 5% 1/10W	C119	1-163-369-11	CERAMIC CHIP 47PFF 5% 25V	
R575	1-216-186-00	METAL GLAZE	330 5% 1/8W	C121	1-163-235-11	CERAMOC CHIP 22PF 5% 50V	
R577	1-216-089-91	METAL GLAZE	47K 5% 1/10W	C122	1-164-239-11	CERAMIC CHIP 33PF 5% 50V	
R578	1-216-238-91	METAL GLAZE	47K 5% 1/8W	C123	1-163-235-11	CERAMIC CHIP 22PF 5% 50V	
R580	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	C124	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
R581	1-216-033-00	METAL GLAZE	220 5% 1/10W	C130	1-216-295-00	METAL GLAZE 0 5% 1/10W	
R582	1-216-037-00	METAL GLAZE	330 5% 1/10W				
R583	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W				
R584	1-216-039-00	METAL GLAZE	390 5% 1/10W				
R585	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W				
R586	1-216-047-00	METAL GLAZE	820 5% 1/10W				
R587	1-216-047-00	METAL GLAZE	820 5% 1/10W				

MC-Service

IF (KV-A2941A/A2941D
KV-A2943E/A2941K)

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C131	1-163-093-00	CERAMIC CHIP 10PF	5% 50V	Q173	8-729-920-74	TRANSISTOR 2SC2412K-QR	
C133	1-124-477-11	ELECT 47MF	20% 16V			< RESISTOR >	
C152	1-164-337-11	CERAMIC CHIP 2.2MF	16V				
C153	1-164-337-11	CERAMIC CHIP 2.2MF	16V	JR2	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C154	1-164-337-11	CERAMIC CHIP 2.2MF	16V	JR3	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C155	1-164-232-11	CERAMIC CHIP 0.01F	10% 50V	JR4	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C156	1-124-477-11	ELECT 47MF	20% 16V	JR7	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C161	1-164-117-00	CERAMIC CHIP 100PF	5% 50V	JR8	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C162	1-164-222-11	CERAMIC CHIP 0.22MF	25V	JR9	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C163	1-164-346-11	CERAMIC CHIP 1MF	16V	JR11	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C164	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	JR14	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C165	1-164-232-11	CERAMIC CHIP 0.01F	10% 50V	JR16	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C166	1-124-477-11	ELECT 47MF	20% 16V	JR18	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C167	1-163-213-00	CERAMIC CHIP 0.0022MF	5% 50V	JR19	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C168	1-164-346-11	CERAMIC CHIP 1MF	16V	JR20	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C170	1-124-477-11	ELECT 47MF	20% 16V	JR21	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C171	1-124-477-11	ELECT 47MF	20% 16V	JR23	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C173	1-124-477-11	ELECT 47MF	20% 16V	JR24	1-216-296-00	METAL GLAZE 0 5% 1/8W	
		< FILTER >		JR25	1-216-296-00	METAL GLAZE 0 5% 1/8W	
CF2	1-527-839-00	FILTER, CERAMIC		JR29	1-216-296-00	METAL GLAZE 0 5% 1/8W	
CF3	1-527-840-00	FILTER, CERAMIC		JR30	1-216-295-00	METAL GLAZE 0 5% 1/10W	
CF4	1-567-570-00	FILTER, CERAMIC		JR33	1-216-295-00	METAL GLAZE 0 5% 1/10W	
SWF1	1-579-658-11	FILTER, SAWTOOTH WAVE		JR38	1-216-296-00	METAL GLAZE 0 5% 1/8W	
		< CONNECTOR >		JR39	1-216-296-00	METAL GLAZE 0 5% 1/8W	
CN1	1-750-173-11	PIN, CONNECTOR (PC BOARD) 10P		JR40	1-216-296-00	METAL GLAZE 0 5% 1/8	
CN2	1-750-173-11	PIN, CONNECTOR (PC BOARD) 10P		R101	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
		< TRIMMER >		R102	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
CT1	1-404-801-11	TRAP, CERAMIC		R103	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
		< DIODE >		R104	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W	
D161	8-719-400-18	DIODE MA152WK		R106	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
		< IC >		R107	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
IC1	8-759-070-76	IC M52308SP		R108	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
IC2	8-759-070-71	IC TDA9820		R110	1-216-041-00	METAL GLAZE 470 5% 1/10W	
IC3	8-759-514-54	IC BA7046		R113	1-216-031-00	METAL GLAZE 180 5% 1/10W	
		< COIL >		R114	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
L101	1-408-421-00	INDUCTOR 100UH		R115	1-216-027-00	METAL GLAZE 120 5% 1/10W	
L102	1-408-419-00	INDUCTOR 68UH		R116	1-216-101-00	METAL GLAZE 150K 5% 1/10W	
L103	1-408-419-00	INDUCTOR 68UH		R117	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
L104	1-408-408-00	INDUCTOR 8.2UH		R118	1-216-117-00	METAL GLAZE 680K 5% 1/10W	
L121	1-408-413-00	INDUCTOR 22UH		R119	1-216-240-00	METAL GLAZE 56K 5% 1/8W	
L122	1-408-420-00	INDUCTOR 82UH		R120	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
L142	1-408-790-00	INDUCTOR 0.56UH		R121	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
L151	1-408-419-00	INDUCTOR 68UH		R122	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
L161	1-408-419-00	INDUCTOR 68UH		R123	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
		< TRANSISTOR >		R124	1-216-041-00	METAL GLAZE 470 5% 1/10W	
Q101	8-729-920-74	TRANSISTOR 2SC2412K-QR		R125	1-216-041-00	METAL GLAZE 470 5% 1/10W	
Q102	8-729-216-22	TRANSISTOR 2SA1162-G		R127	1-216-047-00	METAL GLAZE 820 5% 1/10W	
Q121	8-729-920-74	TRANSISTOR 2SC2412K-QR		R130	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
Q122	8-729-216-22	TRANSISTOR 2SA1162-G		R131	1-216-025-00	METAL GLAZE 100 5% 1/10W	
Q161	8-729-216-22	TRANSISTOR 2SA1162-G		R132	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
Q170	8-729-920-74	TRANSISTOR 2SC2412K-QR		R133	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
Q171	8-729-920-74	TRANSISTOR 2SC2412K-QR		R134	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
Q172	8-729-920-74	TRANSISTOR 2SC2412K-QR		R135	1-216-198-00	METAL GLAZE 1K 5% 1/8W	
				R150	1-216-043-00	METAL GLAZE 560 5% 1/10W	
				R151	1-216-043-00	METAL GLAZE 560 5% 1/10W	
				R152	1-216-043-00	METAL GLAZE 560 5% 1/10W	
				R153	1-216-025-00	METAL GLAZE 100 5% 1/10W	
				R154	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
				R155	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W	
				R156	1-216-083-00	METAL GLAZE 27K 5% 1/10W	

IF (KV-A2941A/A2941D
KV-A2943E/A2941K)

IF (KV-A2941B)

REF.NO.	PART NO.	DESCRIPTION	REMARK
R157	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
R159	1-216-107-00	METAL GLAZE 270K 5%	1/10W
R160	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R161	1-216-755-11	METAL CHIP 130K 0.50%	1/10W
R162	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R163	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R164	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R165	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R166	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R167	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R168	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R169	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R170	1-216-083-00	METAL GLAZE 27K 5%	1/10W
R171	1-216-075-00	METAL GLAZE 12K 5%	1/10W
R172	1-216-095-00	METAL GLAZE 82K 5%	1/10W
R173	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R174	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R175	1-216-083-00	METAL GLAZE 27K 5%	1/10W
R176	1-216-075-00	METAL GLAZE 12K 5%	1/10W
R177	1-216-095-00	METAL GLAZE 82K 5%	1/10W
R178	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R179	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R180	1-216-037-00	METAL GLAZE 330 5%	1/10W
R181	1-216-037-00	METAL GLAZE 330 5%	1/10W

< VARIABLE RESISTOR >

RV1 1-241-121-11 RES, ADJ, CARBON 4.7K

< TRANSFORMER >

T4 1-416-017-21 COIL
T5 1-416-018-21 COIL

1-466-735-11 IF BLOCK (IFH-389F) (KV-A2941B)

< CAPACITOR >

C1	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V
C2	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C3	1-124-903-11	ELECT 1MF	20%	50V
C4	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C5	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C6	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V
C7	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C8	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V
C9	1-124-916-11	ELECT 22MF	20%	25V
C10	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C11	1-124-477-11	ELECT 47MF	20%	16V
C13	1-163-059-00	CERAMIC CHIP 0.01MF	10%	50V
C14	1-124-477-11	ELECT 47MF	20%	16V
C15	1-124-903-11	ELECT 1MF	20%	50V
C16	1-163-061-00	CERAMIC CHIP 0.015MF	10%	50V
C17	1-162-638-11	CERAMIC CHIP 1MF		16V
C18	1-162-638-11	CERAMIC CHIP 1MF		16V
C19	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V
C20	1-124-902-00	ELECT 0.47MF	20%	50V
C21	1-124-903-11	ELECT 1MF	20%	50V
C22	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C23	1-124-902-00	ELECT 0.47MF	20%	50V

REF.NO.	PART NO.	DESCRIPTION	REMARK
C24	1-164-506-11	CERAMIC CHIP 4.7MF	16V
C25	1-124-477-11	ELECT 47MF	20% 16V
C26	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C27	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C28	1-124-477-11	ELECT 47MF	20% 16V
C33	1-124-907-11	ELECT 10MF	20% 50V
C34	1-124-907-11	ELECT 10MF	20% 50V
C35	1-124-925-11	ELECT 2.2MF	20% 50V
C36	1-124-477-11	ELECT 47MF	20% 16V
C37	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C38	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C40	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C71	1-124-477-11	ELECT 47MF	20% 16V
C72	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C80	1-124-477-11	ELECT 47MF	20% 16V
C83	1-124-477-11	ELECT 47MF	20% 16V
C84	1-124-477-11	ELECT 47MF	20% 16V
C85	1-124-477-11	ELECT 47MF	20% 16V
C86	1-124-477-11	ELECT 47MF	20% 16V
C87	1-124-477-11	ELECT 47MF	20% 16V
C91	1-163-229-11	CERAMIC CHIP 12PF	5% 50V
C95	1-164-337-11	CERAMIC CHIP 2.2MF	16V
C101	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C102	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C104	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C105	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C106	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C119	1-163-369-11	CERAMIC CHIP 47PFF	5% 25V
C121	1-126-176-11	ELECT 220MF	20% 10V
C122	1-163-119-00	CERAMIC CHIP 120PF	5% 50V
C131	1-126-099-11	ELECT 2.2MF	20% 35V

< FILTER >

CF1	1-527-839-00	FILTER, CERAMIC
CF2	1-567-569-11	FILTER, CERAMIC
CF3	1-527-840-00	FILTER, CERAMIC
CF4	1-567-570-11	FILTER, CERAMIC
SWF1	1-579-662-11	FILTER, SURFACE WAVE
SWF3	1-404-711-11	SAWF
SWF4	1-579-660-11	FILTER, SAWTOOTH WAVE

< CONNECTOR >

CN1	1-750-173-11	PIN, CONNECTOR (PC BOARD) 10P
CN2	1-750-173-11	PIN, CONNECTOR (PC BOARD) 10P

< TRIMMER >

CT1	1-404-801-11	TRAP, CERAMIC
CT2	1-409-429-11	TRAP, CERAMIC
CV1	1-141-245-00	CAP, TRIMMER
CV1	1-141-245-00	CAP, TRIMMER
CV3	1-141-304-21	TRIMMER, CERAMIC

< DIODE >

D7	8-719-421-57	DIODE MA73-TX
D8	8-719-421-57	DIODE MA73-TX
D9	8-719-421-57	DIODE MA73-TX

< IC >

IC1	8-759-070-75	IC M52312SP
IC2	8-759-070-71	IC TDA9820

IF (KV-A2941B)

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
IC3	8-759-979-62	IC PCF8574		R39	1-216-089-00	METAL GLAZE 47K 5%	1/10W
< COIL >				R40	1-216-049-00	METAL GLAZE 1K 5%	1/10W
L1	1-408-419-00	INDUCTOR 68UH		R42	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
L2	1-408-419-00	INDUCTOR 68UH		R43	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
L3	1-408-407-00	INDUCTOR 6.8UH		R44	1-216-027-00	METAL GLAZE 120 5%	1/10W
L4	1-408-419-00	INDUCTOR 68UH		R45	1-216-041-00	METAL GLAZE 470 5%	1/10W
L5	1-408-419-00	INDUCTOR 68UH		R46	1-216-031-00	METAL GLAZE 180 5%	1/10W
L7	1-408-406-00	INDUCTOR 5.6UH		R47	1-216-075-00	METAL GLAZE 12K 5%	1/10W
L9	1-408-419-00	INDUCTOR 68UH		R48	1-216-081-00	METAL GLAZE 22K 5%	1/10W
L71	1-408-419-00	INDUCTOR 68UH		R49	1-216-049-00	METAL GLAZE 1K 5%	1/10W
L101	1-408-399-00	INDUCTOR 1.5UH		R53	1-216-082-00	METAL GLAZE 24K 5%	1/10W
L121	1-408-407-00	INDUCTOR 6.8UH		R54	1-216-043-00	METAL GLAZE 560 5%	1/10W
< TRANSISTOR >				R55	1-216-043-00	METAL GLAZE 560 5%	1/10W
Q1	8-729-907-06	TRANSISTOR BF199-AMMO		R56	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
Q4	8-729-920-74	TRANSISTOR 2SC2412K-QR		R57	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
Q5	8-729-115-10	TRANSISTOR 2SK105A-10		R58	1-216-041-00	METAL GLAZE 470 5%	1/10W
Q6	8-729-900-52	TRANSISTOR DTC114YK		R59	1-216-043-00	METAL GLAZE 560 5%	1/10W
Q7	8-729-216-22	TRANSISTOR 2SA1162-G		R60	1-216-043-00	METAL GLAZE 560 5%	1/10W
Q8	8-729-920-74	TRANSISTOR 2SC2412K-QR		R61	1-216-295-00	METAL GLAZE 0 5%	1/10W
Q10	8-729-920-74	TRANSISTOR 2SC2412K-QR		R63	1-216-043-00	METAL GLAZE 560 5%	1/10W
Q11	8-729-920-74	TRANSISTOR 2SC2412K-QR		R71	1-216-079-00	METAL GLAZE 18K 5%	1/10W
Q12	8-729-920-74	TRANSISTOR 2SC2412K-QR		R72	1-216-079-00	METAL GLAZE 18K 5%	1/10W
Q13	8-729-920-74	TRANSISTOR 2SC2412K-QR		R73	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q14	8-729-920-74	TRANSISTOR 2SC2412K-QR		R74	1-216-079-00	METAL GLAZE 18K 5%	1/10W
Q15	8-729-920-74	TRANSISTOR 2SC2412K-QR		R75	1-216-079-00	METAL GLAZE 18K 5%	1/10W
Q16	8-729-216-22	TRANSISTOR 2SA1162-G		R76	1-216-025-00	METAL GLAZE 100 5%	1/10W
Q101	8-729-104-80	TRANSISTOR 2SC3355		R77	1-216-174-00	METAL GLAZE 100 5%	1/8W
Q121	8-729-920-74	TRANSISTOR 2SC2412K-QR		R81	1-216-095-00	METAL GLAZE 82K 5%	1/10W
< RESISTOR >				R82	1-216-121-00	METAL GLAZE 1M 5%	1/10W
JR2	1-216-295-00	METAL GLAZE 0 5%	1/10W	R83	1-216-025-00	METAL GLAZE 100 5%	1/10W
JR3	1-216-296-00	METAL GLAZE 0 5%	1/8W	R84	1-216-085-00	METAL GLAZE 33K 5%	1/10W
JR5	1-216-296-00	METAL GLAZE 0 5%	1/8W	R85	1-216-085-00	METAL GLAZE 33K 5%	1/10W
R1	1-216-025-00	METAL GLAZE 100 5%	1/10W	R86	1-216-689-00	METAL GLAZE 39K 5%	1/10W
R2	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R87	1-216-095-00	METAL GLAZE 82K 5%	1/10W
R3	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R88	1-216-095-00	METAL GLAZE 82K 5%	1/10W
R4	1-216-041-00	METAL GLAZE 470 5%	1/10W	R89	1-216-095-00	METAL GLAZE 82K 5%	1/10W
R5	1-216-021-00	METAL GLAZE 68 5%	1/10W	R90	1-216-075-00	METAL GLAZE 12K 5%	1/10W
R6	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W	R91	1-216-295-00	METAL GLAZE 0 5%	1/10W
R8	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W	R92	1-216-075-00	METAL GLAZE 12K 5%	1/10W
R9	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W	R93	1-216-075-00	METAL GLAZE 12K 5%	1/10W
R10	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W	R94	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R11	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W	R95	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R24	1-216-280-00	METAL GLAZE 2.7M 5%	1/8W	R96	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R25	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R97	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R26	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W	R98	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R27	1-216-266-00	METAL GLAZE 680K 5%	1/8W	R99	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R28	1-216-075-00	METAL GLAZE 12K 5%	1/10W	R100	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R29	1-216-035-00	METAL GLAZE 270 5%	1/10W	R102	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R30	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R103	1-216-063-00	METAL GLAZE 3.9K 5%	1/10W
R31	1-216-017-00	METAL GLAZE 47 5%	1/10W	R104	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R32	1-216-043-00	METAL GLAZE 560 5%	1/10W	R105	1-216-033-00	METAL GLAZE 220 5%	1/10W
R33	1-216-037-00	METAL GLAZE 330 5%	1/10W	R121	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R34	1-216-252-00	METAL GLAZE 180K 5%	1/8W	R122	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R35	1-216-035-00	METAL GLAZE 270 5%	1/10W	R123	1-216-041-00	METAL GLAZE 470 5%	1/10W
R36	1-216-029-00	METAL GLAZE 150 5%	1/10W	R124	1-216-041-00	METAL GLAZE 470 5%	1/10W
R37	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R125	1-216-041-00	METAL GLAZE 470 5%	1/10W
R38	1-216-099-00	METAL GLAZE 120K 5%	1/10W	R301	1-216-049-00	METAL GLAZE 1K 5%	1/10W
				R302	1-216-049-00	METAL GLAZE 1K 5%	1/10W
				R303	1-216-049-00	METAL GLAZE 1K 5%	1/10W
				R304	1-216-037-00	METAL GLAZE 330 5%	1/10W

MC-Service

IF (KV-A2941B)

IF (KV-A2942U)

REF.NO.	PART NO.	DESCRIPTION	REMARK
R305	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R306	1-216-025-00	METAL GLAZE 100 5%	1/10W
R307	1-216-037-00	METAL GLAZE 330 5%	1/10W
R308	1-216-037-00	METAL GLAZE 330 5%	1/10W
< VARIABLE RESISTOR >			
RV2	1-241-120-11	RES, ADJ, CARBON 2.2K	
< TRANSFORMER >			
T1	1-404-806-21	COIL	
T3	1-416-012-11	COIL	
T4	1-416-012-11	COIL	
T5	1-402-720-11	COIL	
< CRYSTAL >			
X1	1-579-648-21	VIBRATOR, CERAMIC	

	1-466-734-11	IF BLOCK (IFH-395) (KV-A2942U)	*****
< CAPACITOR >			
C101	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C102	1-164-222-11	CERAMIC CHIP 0.22MF	25V
C103	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C104	1-164-232-11	CERAMIC CHIP 0.01F	10% 50V
C105	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C106	1-124-477-11	ELECT 47MF	20% 16V
C107	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C108	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C109	1-164-232-11	CERAMIC CHIP 0.01F	10% 50V
C112	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C113	1-164-101-00	CERAMIC CHIP 22PF	5% 50V
C114	1-124-477-11	ELECT 47MF	20% 16V
C115	1-164-232-11	CERAMIC CHIP 0.01F	10% 50V
C116	1-164-346-11	CERAMIC CHIP 1MF	16V
C118	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C119	1-163-369-11	CERAMIC CHIP 47PFF	5% 25V
C122	1-163-093-11	CERAMIC CHIP 10PF	5% 50V
C130	1-216-295-00	METAL GLAZE 0	5% 1/10W
C131	1-163-224-11	CERAMIC CHIP 7PF	0.25PF 50V
C133	1-124-477-11	ELECT 47MF	20% 16V
C161	1-164-117-00	CERAMIC CHIP 100PF	5% 50V
C162	1-164-222-11	CERAMIC CHIP 0.22MF	25V
C163	1-164-346-11	CERAMIC CHIP 1MF	16V
C164	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C165	1-164-232-11	CERAMIC CHIP 0.01F	10% 50V
C166	1-124-477-11	ELECT 47MF	20% 16V
C167	1-163-213-00	CERAMIC CHIP 0.0022MF	5% 50V
C168	1-164-346-11	CERAMIC CHIP 1MF	16V
C170	1-124-477-11	ELECT 47MF	20% 16V
C171	1-124-477-11	ELECT 47MF	20% 16V
C173	1-124-477-11	ELECT 47MF	20% 16V
< FILTER >			
CD1	1-579-657-21	DISCRIMINATOR, CERAMIC	
CF1	1-567-569-11	FILTER, CERAMIC	
SWF1	1-579-659-11	FILTER, SAWTOOTH WAVE	

REF.NO.	PART NO.	DESCRIPTION	REMARK
< CONNECTOR >			
CN1	1-750-173-11	PIN, CONNECTOR (PC BOARD) 10P	
CN2	1-750-173-11	PIN, CONNECTOR (PC BOARD) 10P	
< TRIMMER >			
CT1	1-409-333-00	TRAP, CERAMIC (6.0MHZ)	
< DIODE >			
D161	8-719-400-18	DIODE MA152WK	
< IC >			
IC1	8-759-070-76	IC M52308SP	
IC3	8-759-514-54	IC BA7046	
< COIL >			
L101	1-408-414-00	INDUCTOR 27UH	
L102	1-408-419-00	INDUCTOR 68UH	
L103	1-408-419-00	INDUCTOR 68UH	
L104	1-408-406-00	INDUCTOR 5.6UH	
L105	1-408-410-00	INDUCTOR 12UH	
L142	1-408-790-41	INDUCTOR 0.56UH	
L161	1-408-419-00	INDUCTOR 68UH	
< TRANSISTOR >			
Q101	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q102	8-729-216-22	TRANSISTOR 2SA1162-G	
Q122	8-729-216-22	TRANSISTOR 2SA1162-G	
Q161	8-729-216-22	TRANSISTOR 2SA1162-G	
Q172	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q173	8-729-920-74	TRANSISTOR 2SC2412K-QR	
< RESISTOR >			
JR1	1-216-296-00	METAL GLAZE 0	5% 1/W
JR2	1-216-295-00	METAL GLAZE 0	5% 1/OW
JR3	1-216-296-00	METAL GLAZE 0	5% 1/W
JR4	1-216-295-00	METAL GLAZE 0	5% 1/OW
JR7	1-216-295-00	METAL GLAZE 0	5% 1/OW
JR8	1-216-295-00	METAL GLAZE 0	5% 1/OW
JR9	1-216-296-00	METAL GLAZE 0	5% 1/W
JR10	1-216-296-00	METAL GLAZE 0	5% 1/W
JR11	1-216-296-00	METAL GLAZE 0	5% 1/W
JR12	1-216-296-00	METAL GLAZE 0	5% 1/W
JR13	1-163-093-00	CERAMIC CHIP 10PF	5% 50V
JR14	1-216-296-00	METAL GLAZE 0	5% 1/W
JR16	1-216-295-00	METAL GLAZE 0	5% 1/OW
JR18	1-216-295-00	METAL GLAZE 0	5% 1/OW
JR19	1-216-296-00	METAL GLAZE 0	5% 1/W
JR20	1-216-296-00	METAL GLAZE 0	5% 1/W
JR21	1-216-296-00	METAL GLAZE 0	5% 1/W
JR23	1-216-296-00	METAL GLAZE 0	5% 1/W
JR24	1-216-296-00	METAL GLAZE 0	5% 1/W
JR25	1-216-296-00	METAL GLAZE 0	5% 1/W
JR29	1-216-296-00	METAL GLAZE 0	5% 1/W
JR30	1-216-295-00	METAL GLAZE 0	5% 1/OW
JR33	1-216-295-00	METAL GLAZE 0	5% 1/OW
JR38	1-216-296-00	METAL GLAZE 0	5% 1/W
JR39	1-216-296-00	METAL GLAZE 0	5% 1/W

IF (KV-A2942U)

M2

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
JR40	1-216-296-00	METAL GLAZE	0 5% 1/8W	*A-1635-023-A M2 BOARD, COMPLETE *****			
JR41	1-216-295-00	METAL GLAZE	0 5% 1/10W	< CAPACITOR >			
JR42	1-216-295-00	METAL GLAZE	0 5% 1/10W	C001	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
JR101	1-216-295-00	METAL GLAZE	0 5% 1/10W	C004	1-164-222-11	CERAMIC CHIP 0.22MF	25V
R101	1-216-075-00	METAL GLAZE	12K 5% 1/10W	C007	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R102	1-216-045-00	METAL GLAZE	680 5% 1/10W	C008	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R103	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	C010	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R104	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W	C011	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R105	1-216-043-00	METAL GLAZE	560 5% 1/10W	C012	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R106	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C014	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R107	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C016	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
R108	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C017	1-164-222-11	CERAMIC CHIP 0.22MF	25V
R110	1-216-041-00	METAL GLAZE	470 5% 1/10W	C018	1-164-505-11	CERAMIC CHIP 2.2MF	16V
R112	1-216-045-00	METAL GLAZE	680 5% 1/10W	C019	1-124-916-11	ELECT 22MF	20% 50V
R113	1-216-031-00	METAL GLAZE	180 5% 1/10W	C020	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R114	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C022	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R115	1-216-031-00	METAL GLAZE	180 5% 1/10W	C023	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R116	1-216-101-00	METAL GLAZE	150K 5% 1/10W	C024	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R117	1-216-097-00	METAL GLAZE	100K 5% 1/10W	C025	1-164-222-11	CERAMIC CHIP 0.22MF	25V
R118	1-216-117-00	METAL GLAZE	680K 5% 1/10W	C026	1-164-222-11	CERAMIC CHIP 0.22MF	25V
R119	1-216-240-00	METAL GLAZE	56K 5% 1/8W	C032	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R120	1-216-075-00	METAL GLAZE	12K 5% 1/10W	C035	1-163-033-00	CERAMIC CHIP 0.022MF	50V
R121	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	C036	1-164-005-11	CERAMIC CHIP 0.47MF	25V
R122	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	C037	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R123	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	C039	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V
R130	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C042	1-162-638-11	CERAMIC CHIP 1MF	16V
R131	1-216-025-00	METAL GLAZE	100 5% 1/10W	C044	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R132	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	C522	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
R133	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	C523	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
R134	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C524	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
R135	1-216-198-00	METAL GLAZE	1K 5% 1/8W	C525	1-164-222-11	CERAMIC CHIP 0.22MF	25V
R153	1-216-025-00	METAL GLAZE	100 5% 1/10W	C528	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
R159	1-216-107-00	METAL GLAZE	270K 5% 1/10W	C529	1-163-169-00	CERAMIC CHIP 33PF	5% 50V
R160	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C541	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R161	1-216-755-11	METAL CHIP	130K 0.50% 1/10W	C542	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V
R162	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C543	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
R163	1-216-113-00	METAL GLAZE	470K 5% 1/10W	C544	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
R164	1-216-113-00	METAL GLAZE	470K 5% 1/10W	C546	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R165	1-216-081-00	METAL GLAZE	22K 5% 1/10W	C547	1-163-020-00	CERAMIC CHIP 0.0082MF	10% 50V
R166	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C549	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V
R167	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C550	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
R168	1-216-113-00	METAL GLAZE	470K 5% 1/10W	C559	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R169	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C560	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
R175	1-216-083-00	METAL GLAZE	27K 5% 1/10W	C563	1-163-031-11	CERAMIC CHIP 0.01MF	50V
R176	1-216-075-00	METAL GLAZE	12K 5% 1/10W	C564	1-163-031-11	CERAMIC CHIP 0.01MF	50V
R177	1-216-095-00	METAL GLAZE	82K 5% 1/10W	C565	1-163-031-11	CERAMIC CHIP 0.01MF	50V
R178	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	C566	1-163-031-11	CERAMIC CHIP 0.01MF	50V
R179	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	C567	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
R181	1-216-037-00	METAL GLAZE	330 5% 1/10W	C568	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
< VARIABLE RESISTOR >				C569	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
RV1	1-241-121-11	RES, ADJ, CARBON 4.7K		C570	1-162-568-11	CERAMIC CHIP 0.33MF	10% 16V
< TRANSFORMER >				C2001	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
T4	1-416-017-21	COIL		C2002	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
T5	1-416-018-21	COIL		C2004	1-164-222-11	CERAMIC CHIP 0.22MF	25V
				C2005	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C2008	1-164-222-11	CERAMIC CHIP 0.22MF	25V
				C2016	1-164-222-11	CERAMIC CHIP 0.22MF	25V
				C2017	1-164-222-11	CERAMIC CHIP 0.22MF	25V

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C2018	1-164-505-11	CERAMIC CHIP 2.2MF	16V	R010	1-216-049-00	METAL GLAZE 1K 5%	1/10W
C2019	1-124-916-11	ELECT 22MF	20% 50V	R011	1-216-049-00	METAL GLAZE 1K 5%	1/10W
C2020	1-164-222-11	CERAMIC CHIP 0.22MF	25V	R012	1-216-049-00	METAL GLAZE 1K 5%	1/10W
C2021	1-163-113-00	CERAMIC CHIP 68PF	5% 50V	R014	1-216-049-00	METAL GLAZE 1K 5%	1/10W
C2024	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	R016	1-216-045-00	METAL GLAZE 680 5%	1/10W
C2025	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	R017	1-216-049-00	METAL GLAZE 1K 5%	1/10W
C2027	1-164-222-11	CERAMIC CHIP 0.22MF	25V	R018	1-216-041-00	METAL GLAZE 470 5%	1/10W
< FILTER >				R020	1-216-049-00	METAL GLAZE 1K 5%	1/10W
CD001	1-579-126-11	VIBRATOR, CERAMIC		R021	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
< CONNECTOR >				R023	1-216-025-00	METAL GLAZE 100 5%	1/10W
CN1413	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P		R024	1-216-049-00	METAL GLAZE 1K 5%	1/10W
CN1426	*1-568-881-51	PIN, CONNECTOR 6P		R025	1-216-049-00	METAL GLAZE 1K 5%	1/10W
CN1432	*1-568-882-51	PIN, CONNECTOR 7P		R026	1-216-049-00	METAL GLAZE 1K 5%	1/10W
< DIODE >				R027	1-216-049-00	METAL GLAZE 1K 5%	1/10W
D001	8-719-027-82	DIODE MA3039H-TX		R028	1-216-677-11	METAL CHIP 12K 0.50%	1/10W
D2001	8-719-036-58	DIODE MA3030-H(TX)		R030	1-216-049-00	METAL GLAZE 1K 5%	1/10W
D2003	8-719-914-44	DIODE DAP202K		R032	1-216-049-00	METAL GLAZE 1K 5%	1/10W
D2007	8-719-914-44	DIODE DAP202K		R033	1-216-049-00	METAL GLAZE 1K 5%	1/10W
< IC >				R034	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
IC001	8-759-168-52	IC SDA30C162-GEG		R035	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
IC561	8-752-347-92	IC CXD2018Q		R038	1-216-073-00	METAL GLAZE 10K 5%	1/10W
IC562	8-759-998-98	IC LM358D		R049	1-216-049-00	METAL GLAZE 1K 5%	1/10W
IC563	8-759-708-05	IC NJM78L05A		R050	1-216-073-00	METAL GLAZE 10K 5%	1/10W
IC2002	8-759-262-58	IC SDA5273P-C22-GEG		R051	1-216-081-00	METAL GLAZE 22K 5%	1/10W
< COIL >				R052	1-216-073-00	METAL GLAZE 10K 5%	1/10W
L001	1-408-421-00	INDUCTOR 100UH		R053	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
L561	1-408-409-00	INDUCTOR 10UH		R054	1-216-081-00	METAL GLAZE 22K 5%	1/10W
L562	1-408-409-00	INDUCTOR 10UH		R055	1-216-081-00	METAL GLAZE 22K 5%	1/10W
L563	1-408-947-00	INDUCTOR 2.2MMH		R067	1-216-043-00	METAL GLAZE 560 5%	1/10W
L2001	1-410-674-31	INDUCTOR 82UH		R068	1-216-043-00	METAL GLAZE 560 5%	1/10W
< TRANSISTOR >				R069	1-216-037-00	METAL GLAZE 330 5%	1/10W
Q002	8-729-216-22	TRANSISTOR 2SA1162-G		R071	1-216-198-91	METAL GLAZE 1K 5%	1/3W
Q003	8-729-920-74	TRANSISTOR 2SC2412K-QR		R535	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
Q564	8-729-216-22	TRANSISTOR 2SA1162-G		R536	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
Q565	8-729-920-74	TRANSISTOR 2SC2412K-QR		R538	1-216-025-00	METAL GLAZE 100 5%	1/10W
Q566	8-729-920-74	TRANSISTOR 2SC2412K-QR		R539	1-216-657-11	METAL CHIP 1.8K 0.50%	1/10W
Q567	8-729-901-01	TRANSISTOR DTC144EK		R541	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q2001	8-729-920-74	TRANSISTOR 2SC2412K-QR		R542	1-216-025-00	METAL GLAZE 100 5%	1/10W
Q2002	8-729-920-74	TRANSISTOR 2SC2412K-QR		R544	1-216-085-00	METAL GLAZE 33K 5%	1/10W
Q2003	8-729-216-22	TRANSISTOR 2SA1162-G		R545	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q2004	8-729-920-74	TRANSISTOR 2SC2412K-QR		R546	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
Q2005	8-729-920-74	TRANSISTOR 2SC2412K-QR		R547	1-216-651-11	METAL CHIP 1K 0.50%	1/10W
Q2006	8-729-901-01	TRANSISTOR DTC144EK		R551	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q2008	8-729-901-00	TRANSISTOR DTC124EK		R552	1-216-097-00	METAL GLAZE 100K 5%	1/10W
< RESISTOR >				R553	1-216-085-00	METAL GLAZE 33K 5%	1/10W
JR553	1-216-295-91	METAL GLAZE 0 5%	1/10W	R559	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R001	1-216-025-00	METAL GLAZE 100 5%	1/10W	R560	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R002	1-216-025-00	METAL GLAZE 100 5%	1/10W	R564	1-216-091-00	METAL GLAZE 56K 5%	1/10W
R003	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R565	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R004	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R566	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R005	1-216-295-91	METAL GLAZE 0 5%	1/10W	R567	1-216-085-00	METAL GLAZE 33K 5%	1/10W
R007	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R568	1-216-109-00	METAL GLAZE 330K 5%	1/10W
R008	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R570	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2001	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R2001	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R2002	1-216-043-00	METAL GLAZE 560 5%	1/10W	R2002	1-216-043-00	METAL GLAZE 560 5%	1/10W
R2003	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R2003	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R2004	1-216-037-00	METAL GLAZE 330 5%	1/10W	R2004	1-216-037-00	METAL GLAZE 330 5%	1/10W
R2005	1-216-041-00	METAL GLAZE 470 5%	1/10W	R2005	1-216-041-00	METAL GLAZE 470 5%	1/10W
R2007	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R2007	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R2008	1-216-025-00	METAL GLAZE 100 5%	1/10W	R2008	1-216-025-00	METAL GLAZE 100 5%	1/10W

M2**C****MC-Service**

The components identified by shading and marked **C** are critical for safety.
Replace only with the part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
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R2009	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R2010	1-216-025-00	METAL GLAZE 100 5%	1/10W
R2011	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W

R2012	1-216-631-11	METAL CHIP 150 0.50%	1/10W
R2013	1-216-631-11	METAL CHIP 150 0.50%	1/10W
R2014	1-216-631-11	METAL CHIP 150 0.50%	1/10W
R2017	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R2018	1-216-081-00	METAL GLAZE 22K 5%	1/10W

R2019	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R2020	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R2021	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R2025	1-216-063-00	METAL GLAZE 3.9K 5%	1/10W
R2026	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W

R2030	1-216-295-91	METAL GLAZE 0 5%	1/10W
R2032	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2033	1-216-295-91	METAL GLAZE 0 5%	1/10W
R2036	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2037	1-216-049-00	METAL GLAZE 1K 5%	1/10W

R2039	1-216-041-00	METAL GLAZE 470 5%	1/10W
R2040	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
R2041	1-249-409-11	CARBON 220 5%	1/4W

< CRYSTAL >

X2001	1-579-965-21	VIBRATOR, CRYSTAL	
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*A-1638-042-A C BOARD, COMPLETE

< CAPACITOR >

C701	1-162-114-00	CERAMIC 0.0047MF	2KV
C703	1-123-946-00	ELECT 4.7MF	20% 250V
C705	1-162-116-00	CERAMIC 680PF	10% 2KV
C708	1-163-197-00	CERAMIC CHIP 470PF	10% 50V
C709	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
C710	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
C711	1-101-880-00	CERAMIC 47PF	5% 50V
C712	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C713	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C714	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C716	1-124-478-11	ELECT 100MF	20% 25V

< CONNECTOR >

CN0002	1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
CN0403	1-564-511-11	PLUG, CONNECTOR 8P	
CN0421	1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P	

< DIODE >

D701	8-719-901-33	DIODE 1SS133	
D702	8-719-901-33	DIODE 1SS133	
D703	8-719-901-33	DIODE 1SS133	
D704	8-719-901-33	DIODE 1SS133	
D705	8-719-901-33	DIODE 1SS133	
D706	8-719-901-33	DIODE 1SS133	
D707	8-719-901-33	DIODE 1SS133	
D708	8-719-901-33	DIODE 1SS133	
D709	8-719-901-33	DIODE 1SS133	
D710	8-719-901-33	DIODE 1SS133	
D713	8-719-908-03	DIODE GP08D	

REF.NO.	PART NO.	DESCRIPTION	REMARK
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< CRT SOCKET >

J701	1-526-990-21	SOCKET, CRT	
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< COIL >

L701	1-410-667-31	INDUCTOR 22UH	
L703	1-408-609-41	INDUCTOR 33UH	
L705	1-408-609-41	INDUCTOR 33UH	
L707	1-408-609-41	INDUCTOR 33UH	

< TRANSISTOR >

Q701	8-729-906-70	TRANSISTOR BF871	
Q702	8-729-906-70	TRANSISTOR BF871	
Q703	8-729-906-70	TRANSISTOR BF871	
Q704	8-729-906-70	TRANSISTOR BF871	
Q705	8-729-906-70	TRANSISTOR BF871	
Q706	8-729-906-70	TRANSISTOR BF871	
Q707	8-729-200-17	TRANSISTOR 2SA1091-O	
Q708	8-729-200-17	TRANSISTOR 2SA1091-O	
Q709	8-729-200-17	TRANSISTOR 2SA1091-O	
Q710	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q711	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q712	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q713	8-729-216-22	TRANSISTOR 2SA1162-G	
Q714	8-729-255-12	TRANSISTOR 2SC2551-O	

< RESISTOR >

JR701	1-216-296-91	METAL GLAZE 0 5%	1/8W
JR703	1-216-296-91	METAL GLAZE 0 5%	1/8W
R701	1-202-848-00	SOLID 680K 10%	1/2W
R702	1-202-838-00	SOLID 100K 20%	1/2W
R703	1-202-838-00	SOLID 100K 20%	1/2W
R704	1-202-842-11	SOLID 220K 10%	1/2W
R705	1-216-398-11	METAL OXIDE 5.6 5%	3W F
R706	1-216-398-11	METAL OXIDE 5.6 5%	3W F
R707	1-249-421-11	CARBON 2.2K 5%	1/4W
R708	1-249-421-11	CARBON 2.2K 5%	1/4W
R709	1-249-421-11	CARBON 2.2K 5%	1/4W
R710	1-215-899-11	METAL OXIDE 15K 5%	2W F
R711	1-202-820-11	SOLID 1.5K 20%	1/2W
R712	1-215-899-11	METAL OXIDE 15K 5%	2W F
R713	1-202-820-11	SOLID 1.5K 20%	1/2W
R714	1-215-899-11	METAL OXIDE 15K 5%	2W F
R715	1-202-820-11	SOLID 1.5K 20%	1/2W
R716	1-247-700-11	CARBON 100 5%	1/4W F
R717	1-249-405-11	CARBON 100 5%	1/4W F
R718	1-247-700-11	CARBON 100 5%	1/4W F
R720	1-249-417-11	CARBON 1K 5%	1/4W F
R722	1-247-713-11	CARBON 1K 5%	1/4W F
R724	1-249-417-11	CARBON 1K 5%	1/4W F
R725	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
R726	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
R727	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
R728	1-216-037-00	METAL GLAZE 330 5%	1/10W
R729	1-216-037-00	METAL GLAZE 330 5%	1/10W
R730	1-216-037-00	METAL GLAZE 330 5%	1/10W
R731	1-216-017-00	METAL GLAZE 47 5%	1/10W
R732	1-216-017-00	METAL GLAZE 47 5%	1/10W
R733	1-216-017-00	METAL GLAZE 47 5%	1/10W
R734	1-202-549-00	SOLID 100 20%	1/2W

C

D4

D5

REF.NO.	PART NO.	DESCRIPTION	REMARK
R735	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R738	1-216-025-00	METAL GLAZE 100 5%	1/10W
R739	1-216-025-00	METAL GLAZE 100 5%	1/10W
R740	1-216-025-00	METAL GLAZE 100 5%	1/10W
R741	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R742	1-216-029-00	METAL GLAZE 150 5%	1/10W
R743	1-249-434-11	CARBON 27K 5%	1/4W
R747	1-216-489-11	METAL OXIDE 27K 5%	3W F
R749	1-216-490-11	METAL OXIDE 39K 5%	3W F
R751	1-215-926-00	METAL OXIDE 33K 5%	3W F
R753	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R758	1-249-419-11	CARBON 1.5K 5%	1/4W
R759	1-249-419-11	CARBON 1.5K 5%	1/4W
R760	1-249-419-11	CARBON 1.5K 5%	1/4W

< VARIABLE RESISTOR >

RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M
RV702	1-241-656-11	RES, ADJ, METAL FILM 110M

*A-1642-102-A D4 BOARD, COMPLETE

< CAPACITOR >

C1841	1-137-371-11	FILM 0.015MF 5%	50V
C1844	1-106-383-00	MYLAR 0.047MF 5%	200V
C1845	1-130-785-11	MYLAR 0.47MF 10%	100V
C1851	1-126-103-11	ELECT 470MF 20%	16V
C1854	1-124-477-11	ELECT 47MF 20%	16V
C1855	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C1858	1-163-275-11	CERAMIC CHIP 0.001MF 5%	50V
C1859	1-163-275-11	CERAMIC CHIP 0.001MF 5%	50V
C1860	1-163-989-11	CERAMIC CHIP 0.033MF 10%	25V
C1861	1-163-989-11	CERAMIC CHIP 0.033MF 10%	25V
C1862	1-124-006-11	ELECT 10MF 20%	25V
C1863	1-136-104-00	FILM 0.16MF 5%	200V
C1867	1-126-103-11	ELECT 470MF 20%	16V
C1892	1-163-989-11	CERAMIC CHIP 0.033MF 10%	25V

< CONNECTOR >

CN1823	*1-573-299-11	CONNECTOR, BOARD TO BOARD 10P
CN1841	*1-568-878-51	PIN, CONNECTOR 3P
CN1842	1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P

< DIODE >

D1840	8-719-302-43	DIODE EL1Z
D1841	8-719-914-43	DIODE DAN202K
D1856	8-719-914-43	DIODE DAN202K
D1867	8-719-987-87	DIODE ERA85-009
D1868	8-719-987-87	DIODE ERA85-009
D1882	8-719-109-89	DIODE RD5.6ESB2
D1883	8-719-109-89	DIODE RD5.6ESB2

< IC >

IC1851	8-759-708-05	IC NJM78L05A
IC1852	8-759-135-80	IC UPC358C
IC1853	8-759-902-21	IC SN74LS221N

< COIL >

L1841	1-459-075-00	COIL, DYNAMIC CONVERSION CHOKE
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REF.NO.	PART NO.	DESCRIPTION	REMARK
L1843	1-459-104-00	COIL, WITH CORE	
L1852	1-459-390-00	COIL (WITH CORE)	

< TRANSISTOR >

Q1840	8-729-920-74	TRANSISTOR 2SC2412K-QR
Q1841	8-729-195-82	TRANSISTOR 2SC2958-L
Q1851	8-729-920-74	TRANSISTOR 2SC2412K-QR
Q1854	8-729-216-22	TRANSISTOR 2SA1162-G
Q1855	8-729-920-74	TRANSISTOR 2SC2412K-QR
Q1856	8-729-017-05	TRANSISTOR 2SA1837
Q1857	8-729-122-03	TRANSISTOR 2SA1220A-P
Q1858	8-729-920-92	TRANSISTOR 2SD2096-EF
Q1859	8-729-216-22	TRANSISTOR 2SA1162-G
Q1860	8-729-920-74	TRANSISTOR 2SC2412K-QR
Q1861	8-729-017-06	TRANSISTOR 2SC4793

< RESISTOR >

JR1851	1-216-295-91	METAL GLAZE 0 5%	1/10W
R1841	1-216-085-00	METAL GLAZE 33K 5%	1/10W
R1842	1-260-111-11	CARBON 10K 5%	1/1W
R1843	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R1844	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R1847	1-249-399-11	CARBON 33 5%	1/4W F
R1848	1-216-434-11	METAL OXIDE 1.8K 5%	1W F
R1849	1-260-111-11	CARBON 10K 5%	1/1W
R1852	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R1853	1-216-691-11	METAL CHIP 47K 0.50%	1/10W
R1854	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1860	1-216-021-00	METAL GLAZE 68 5%	1/10W
R1861	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1862	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
R1863	1-218-758-11	METAL CHIP 180K 0.50%	1/10W
R1873	1-216-474-11	METAL OXIDE 82 5%	3W F
R1875	1-216-683-11	METAL CHIP 22K 0.50%	1/10W
R1877	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R1878	1-260-091-11	CARBON 220 5%	1/1W
R1881	1-260-091-11	CARBON 220 5%	1/1W
R1882	1-215-869-11	METAL OXIDE 1K 5%	1W F
R1893	1-216-474-11	METAL OXIDE 82 5%	3W F
R1894	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R1895	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R1898	1-216-037-00	METAL GLAZE 330 5%	1/10W
R1899	1-216-037-00	METAL GLAZE 330 5%	1/10W

< VARIABLE RESISTOR >

RV1851	1-241-765-11	RES, ADJ, CERMET 22K
RV1853	1-241-628-11	RES, ADJ, CARBON 2.2K

< TRANSFORMER >

T1851	1-423-786-11	TRANSFORMER, FERRITE (VPOT)
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*A-1640-109-A D5 BOARD, COMPLETE

< CAPACITOR >

C803	1-164-695-11	CERAMIC CHIP 0.0022MF 5%	50V
C804	1-136-161-00	FILM 0.047MF 5%	50V
C806	1-124-907-11	ELECT 10MF 20%	50V



REF.NO.	PART NO.	DESCRIPTION	REMARK
C807	1-102-002-00	CERAMIC 680PF 10%	500V
C823	1-124-902-00	ELECT 0.47MF 20%	50V
C827	1-130-777-00	FILM 0.1MF 5%	63V
C847	1-164-337-11	CERAMIC CHIP 2.2MF 16V	
C852	1-164-299-11	CERAMIC CHIP 0.22MF 10%	25V
C853	1-124-477-11	ELECT 47MF 20%	25V
C857	1-124-902-00	ELECT 0.47MF 20%	50V
C861	1-130-777-00	FILM 0.1MF 5%	63V
C866	1-137-364-11	FILM 0.001MF 5%	50V
C870	1-137-364-11	FILM 0.001MF 5%	50V
C871	1-130-651-00	FILM 0.001MF 2%	100V
C872	1-124-907-11	ELECT 10MF 20%	50V
C873	1-137-364-11	FILM 0.001MF 5%	50V
< CONNECTOR >			
CN2044	*1-573-299-11	CONNECTOR, BOARD TO BOARD 10P	
< DIODE >			
D804	8-719-901-33	DIODE 1SS133	
D808	8-719-109-88	DIODE RD5.6ESB1	
D818	8-719-109-93	DIODE RD6.2ESB2	
D821	8-719-914-44	DIODE DAP202K	
D827	8-719-982-96	DIODE MTZJ-T-77-2.2A	
D830	8-719-914-44	DIODE DAP202K	
D831	8-719-914-43	DIODE DAN202K	
D832	8-719-914-44	DIODE DAP202K	
D833	8-719-914-44	DIODE DAP202K	
< IC >			
IC802	8-759-103-93	IC UPC393C	
< TRANSISTOR >			
Q804	8-729-216-22	TRANSISTOR 2SA1162-G	
Q805	8-729-216-22	TRANSISTOR 2SA1162-G	
Q812	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q818	8-729-216-22	TRANSISTOR 2SA1162-G	
< RESISTOR >			
JR802	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR803	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR804	1-216-295-91	METAL GLAZE 0 5% 1/10W	
R802	1-216-295-91	METAL GLAZE 0 5% 1/10W	
R805	1-216-679-11	METAL CHIP 15K 0.50% 1/10W	
R806	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R808	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R809	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R813	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R814	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R815	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R820	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R824	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R828	1-216-121-00	METAL GLAZE 1M 5% 1/10W	
R829	1-249-429-11	CARBON 10K 5% 1/4W F	
R830	1-216-687-11	METAL CHIP 33K 0.50% 1/10W	
R832	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R834	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R835	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R837	1-216-695-11	METAL CHIP 68K 0.50% 1/10W	
R838	1-216-099-00	METAL GLAZE 120K 5% 1/10W	

REF.NO.	PART NO.	DESCRIPTION	REMARK
R846	1-216-671-11	METAL CHIP 6.8K 0.50% 1/10W	
R847	1-216-699-11	METAL CHIP 100K 0.50% 1/10W	
R867	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R884	1-216-693-11	METAL CHIP 56K 0.50% 1/10W	
R891	1-216-075-00	METAL GLAZE 12K 5% 1/10W	

*A-1642-097-A D BOARD, COMPLETE *****			
4-201-023-01 SPACER, INSULATING			
*4-368-683-21 SPRING, TRANSISTOR			
4-389-343-21 SPRING, IC			
4-812-134-00 RIVET NYLON, 3.5			
< CAPACITOR >			
C601	1-130-202-00	FILM 0.022MF 10%	400V
C602	1-162-116-00	CERAMIC 680PF 10%	2KV
C603	1-161-742-00	CERAMIC 0.0022MF 20%	400V
C605	1-124-910-11	ELECT 47MF 20%	50V
C608	1-124-903-11	ELECT 1MF 20%	50V
C611	1-102-002-00	CERAMIC 680PF 10%	500V
C612	1-130-481-00	FILM 0.0068MF 5%	50V
C613	1-129-722-00	FILM 0.047MF 10%	630V
C614	1-102-030-00	CERAMIC 330PF 10%	500V
C615	1-124-962-11	ELECT 2200MF 20%	25V
C616	1-162-115-00	CERAMIC 330PF 10%	1KV
C617	1-162-116-00	CERAMIC 680PF 10%	2KV
C618	1-162-134-11	CERAMIC 470PF 10%	2KV
C619	1-102-030-00	CERAMIC 330PF 10%	500V
C620	1-164-299-11	CERAMIC CHIP 0.22MF 10%	25V
C621	1-124-347-00	ELECT 100MF 20%	160V
C622	1-128-320-11	ELECT 2200MF 20%	16V
C623	1-102-030-00	CERAMIC 330PF 10%	500V
C624	1-126-800-51	ELECT 2200MF 20%	25V
C625	1-126-800-51	ELECT 2200MF 20%	25V
C627	1-136-553-11	FILM 0.0015MF 10%	400V
C628	1-124-477-11	ELECT 47MF 20%	25V
C629	1-124-907-11	ELECT 10MF 20%	50V
C631	1-163-075-00	CERAMIC CHIP 0.047MF 10%	25V
C632	1-137-372-11	FILM 0.022MF 5%	50V
C633	1-164-299-11	CERAMIC CHIP 0.22MF 10%	25V
C636	1-130-777-00	FILM 0.1MF 5%	63V
C640	1-124-916-11	ELECT 22MF 20%	50V
C645	1-128-571-11	ELECT 56MF 20%	50V
C646	1-124-798-11	ELECT 1MF 20%	160V
C647	1-124-907-11	ELECT 10MF 20%	50V
C801	1-137-116-11	FILM 1MF 5%	200V
C805	1-124-902-00	ELECT 0.47MF 20%	50V
C808	1-162-114-00	CERAMIC 0.0047MF 2KV	
C809	1-124-808-51	ELECT 10MF 20%	200V
C810	1-163-001-11	CERAMIC CHIP 220PF 10%	50V
C812	1-162-318-11	CERAMIC 0.001MF 10%	500V
C813	1-108-704-11	MYLAR 0.1MF 10%	200V
C815	1-162-117-00	CERAMIC 100PF 10%	500V
C819	1-126-103-11	ELECT 470MF 20%	16V
C821	1-137-063-11	FILM 0.018MF 3%	0
C822	1-162-116-00	CERAMIC 680PF 10%	2KV
C824	1-137-366-11	FILM 0.0022MF 5%	50V
C825	1-162-116-00	CERAMIC 680PF 10%	2KV
C826	1-137-515-11	FILM 0.056MF 3%	400V

The components identified by shading and marked  are critical for safety.
Replace only with the part number specified.

MC-Service

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REF.NO.	PART NO.	DESCRIPTION	REMARK
C828	1-136-557-11	FILM 0.0033MF	10% 400V
C830	1-136-189-00	FILM 0.1MF	5% 250V
C831	1-123-932-00	ELECT 4.7MF	20% 160V
C832	1-124-477-11	ELECT 47MF	20% 25V
C833	1-136-126-00	FILM 0.82MF	5% 400V
C834	1-137-114-11	FILM 0.68MF	5% 200V
C835	1-124-480-11	ELECT 470MF	20% 25V
C836	1-102-228-00	CERAMIC 470PF	10% 500V
C837	1-129-702-00	FILM 0.001MF	10% 400V
C838	1-108-704-11	MYLAR 0.1MF	10% 200V
C839	1-123-950-00	ELECT 47MF	20% 250V
C840	1-124-480-11	ELECT 470MF	20% 25V
C841	1-102-228-00	CERAMIC 470PF	10% 500V
C842	1-136-208-11	FILM 0.068MF	10% 250V
C843	1-124-907-11	ELECT 10MF	20% 50V
C846	1-123-024-21	ELECT 33MF	160V
C851	1-137-364-11	FILM 0.001MF	5% 50V
C854	1-161-754-00	CERAMIC 0.001MF	10% 2KV
C863	1-106-383-00	MYLAR 0.047MF	10% 100V
C869	1-130-777-00	FILM 0.1MF	5% 63V
C875	1-102-038-00	CERAMIC 0.001MF	500V
C877	1-124-902-00	ELECT 0.47MF	20% 50V
C878	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C879	1-102-228-00	CERAMIC 470PF	10% 500V
C882	1-106-383-00	MYLAR 0.047MF	10% 100V
C1501	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C1502	1-124-903-11	ELECT 1MF	20% 50V
C1503	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C1504	1-124-480-11	ELECT 470MF	20% 25V
C1505	1-124-911-11	ELECT 220MF	20% 50V
C1506	1-130-777-00	FILM 0.1MF	5% 63V
C1507	1-137-423-11	MYLAR 0.15MF	10% 100V
C1508	1-124-480-11	ELECT 470MF	20% 25V
C1509	1-124-767-00	ELECT 2.2MF	20% 50V
C1511	1-124-907-11	ELECT 10MF	20% 50V
C1512	1-124-006-11	ELECT 10MF	20% 25V
C1514	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1515	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
< CONNECTOR >			
CN0004	1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
CN0009	1-568-878-51	PIN, CONNECTOR 3P	
CN0504	1-564-511-11	PLUG, CONNECTOR 8P	
CN0505	*1-568-880-51	PIN, CONNECTOR 5P	
CN0506	*1-568-880-51	PIN, CONNECTOR 5P	
CN0519	*1-568-878-51	PIN, CONNECTOR 3P	
CN0521	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
CN0523	1-573-296-11	CONNECTOR, BOARD TO BOARD 10P	
CN0524	*1-568-878-51	PIN, CONNECTOR 3P	
CN0525	*1-695-294-11	PIN, CONNECTOR (PC BOARD) 6P	
CN0526	*1-568-881-51	PIN, CONNECTOR 6P	
CN0529	1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
CN0544	1-573-296-11	CONNECTOR, BOARD TO BOARD 10P	
CN5521	*1-568-878-51	PIN, CONNECTOR 3P	
DY1	*1-580-798-11	CONNECTOR PIN (DY) 6P	
< DIODE >			
D601	8-719-914-44	DIODE DAP202K	
D602	8-719-302-43	DIODE EL1Z	
D604	8-719-110-39	DIODE RD15ESB1	
D605	8-719-975-56	DIODE 1SS120A	

REF.NO.	PART NO.	DESCRIPTION	REMARK
D606	8-719-302-43	DIODE EL1Z	
D607	8-719-302-43	DIODE EL1Z	
D608	8-719-300-33	DIODE RU-3AM	
D610	1-806-660-11	DIODE ESAB85-009	
D611	8-719-029-04	DIODE D5L60	
D612	8-719-510-09	DIODE D10SC6M	
D613	8-719-920-68	DIODE ESAB92-02	
D614	8-719-920-68	DIODE ESAB92-02	
D616	8-719-110-31	DIODE RD12ESB2	
D619	8-719-914-43	DIODE DAN202K	
D620	8-719-901-33	DIODE 1SS133	
D621	8-719-302-43	DIODE EL1Z	
D624	8-719-312-39	DIODE R2K-V1	
D801	8-719-018-82	DIODE RGP02-20EL-6394	
D802	8-719-302-43	DIODE EL1Z	
D803	8-719-982-27	DIODE MTZJ-33C	
D809	8-719-110-03	DIODE RD7.5ESB2	
D811	8-719-300-33	DIODE ERB44-06TP1	
D812	8-719-908-03	DIODE GP08D	
D813	8-719-908-03	DIODE GP08D	
D814	8-719-979-85	DIODE EGP20G	
D815	8-719-302-43	DIODE EL1Z	
D816	8-719-979-85	DIODE EGP20G	
D822	8-719-982-20	DIODE MTZJ-30B	
D824	8-719-028-72	DIODE RGP02-17EL-6433	
D825	8-719-914-43	DIODE DAN202K	
D826	8-719-914-43	DIODE DAN202K	
D828	8-719-901-33	DIODE 1SS133	
D1501	8-719-914-43	DIODE DAN202K	
D1503	8-719-908-03	DIODE GP08D	
D1504	8-719-982-03	DIODE MTZJ-3.6A	
< IC >			
IC601	8-759-073-29	IC TDA4605-3	
IC602	8-759-908-15	IC TL431CLP	
IC603	8-749-923-44	IC SPH617C-1	
IC801	8-759-103-93	IC UPC393C	
IC803	8-759-081-31	IC MC78L12ACPRP	
IC1501	8-759-192-71	IC STV9379	
	4-202-373-01	SPRING, IC (IC1501)	
< COIL >			
L602	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
L603	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
L604	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
L605	1-412-528-11	INDUCTOR 18UH	
L606	1-412-528-11	INDUCTOR 18UH	
L610	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
L622	1-412-533-21	INDUCTOR 47UH	
L623	1-412-533-21	INDUCTOR 47UH	
L802	1-408-947-00	INDUCTOR 2.2MMH	
L803	1-420-872-00	COIL, AIR CORE	
L804	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
L807	1-412-540-31	INDUCTOR 180UH	
L808	1-412-552-31	INDUCTOR 2.2MMH	
L809	1-459-104-00	COIL, WITH CORE	
L810	1-460-197-21	COIL, FERRITE (PMC)	
L811	1-412-519-11	INDUCTOR 3.3UH	
L812	1-412-519-11	INDUCTOR 3.3UH	
L813	1-412-519-11	INDUCTOR 3.3UH	

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The components identified by shading and marked **Δ** are critical for safety.
Replace only with the part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
L817	1-423-963-11	TRANSFORMER, LINEARITY (HLT)		R633	1-249-415-11	CARBON	680 5% 1/4W
L818	1-459-104-00	COIL, WITH CORE		R634	1-215-477-00	METAL	220K 1% 1/4W
L1501	1-412-525-21	INDUCTOR 10UH		R635	1-216-073-00	METAL GLAZE	10K 5% 1/10W
L1502	1-412-525-21	INDUCTOR 10UH		R636	1-215-925-11	METAL OXIDE	22K 5% 3W F
L1503	1-412-525-21	INDUCTOR 10UH		R637	1-216-113-00	METAL GLAZE	470K 5% 1/10W
< IC LINK >				R638	1-216-073-00	METAL GLAZE	10K 5% 1/10W
PS601 Δ	1-532-686-91	LINK, IC 2.7A (ICP-N50)		R639	1-216-089-91	METAL GLAZE	47K 5% 1/10W
PS602 Δ	1-532-686-91	LINK, IC 2.7A (ICP-N50)		R640	1-207-905-00	WIREWOUND	0.27 10% 2W F
PS603 Δ	1-532-686-91	LINK, IC 2.7A (ICP-N50)		R642	1-216-374-00	METAL OXIDE	2.7 5% 2W F
PS604 Δ	1-532-686-91	LINK, IC 2.7A (ICP-N50)		R643	1-249-417-11	CARBON	1K 5% 1/4W
< TRANSISTOR >				R645	1-215-464-00	METAL	62K 1% 1/4W
Q601	8-729-016-14	TRANSISTOR BUZ91A-E3155		R646	1-216-097-00	METAL GLAZE	100K 5% 1/10W
	4-200-001-01	HOLDER, IC (Q601)		R647	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
Q602	8-729-177-22	TRANSISTOR 2SB772-Q		R648	1-249-424-11	CARBON	3.9K 5% 1/4W
Q603	8-729-900-53	TRANSISTOR DTC114EK		R649	1-216-270-00	METAL GLAZE	1M 5% 1/8W
Q604	8-729-209-15	TRANSISTOR 2SD2012		R650	1-216-113-00	METAL GLAZE	470K 5% 1/10W
Q605	8-729-255-12	TRANSISTOR 2SC2551-0		R651	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
Q606	8-729-216-22	TRANSISTOR 2SA1162-G		R652	1-216-109-00	METAL GLAZE	330K 5% 1/10W
Q611	8-729-119-78	TRANSISTOR 2SC2785-HFE		R653	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
Q612	8-729-903-29	TRANSISTOR DTA144TK		R654	1-215-904-11	METAL OXIDE	100K 5% 2W F
Q613	8-729-216-22	TRANSISTOR 2SA1162-G		R655	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
Q801	8-729-016-32	TRANSISTOR 2SC4927-01		R656	1-216-033-00	METAL GLAZE	220 5% 1/10W
	4-202-373-01	SPRING, IC (Q801)		R657	1-247-811-31	CARBON	150 5% 1/4W
Q802	8-729-140-97	TRANSISTOR 2SB734-34		R801	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W
Q806	8-729-019-71	TRANSISTOR 2SK1916-53-F50		R804	1-217-778-11	FUSIBLE	1K 5% 1W F
Q807	8-729-119-80	TRANSISTOR 2SC2688-LK		R807	1-216-037-00	METAL GLAZE	330 5% 1/10W
Q813	8-729-140-96	TRANSISTOR 2SD774-34		R811	1-216-033-00	METAL GLAZE	220 5% 1/10W
Q1501	8-729-920-74	TRANSISTOR 2SC2412K-QR		R812	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
Q1502	8-729-901-01	TRANSISTOR DTC144EK		R818	1-216-685-11	METAL CHIP	27K 0.50% 1/10W
Q1503	8-729-216-22	TRANSISTOR 2SA1162-G		R819	1-247-755-11	CARBON	1.8K 5% 1/2W F
Q1504	8-729-901-01	TRANSISTOR DTC144EK		R821	1-216-481-11	METAL OXIDE	1.2K 5% 3W F
< RESISTOR >				R822	1-216-481-11	METAL OXIDE	1.2K 5% 3W F
FS046	1-249-399-11	CARBON	33 5% 1/4W F	R823	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R602	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R825	1-216-342-11	METAL OXIDE	0.27 5% 1W F
R603	1-215-901-00	METAL OXIDE	33K 5% 2W F	R826	1-216-166-00	METAL GLAZE	47 5% 1/8W
R604	1-260-200-11	CARBON	240K 5% 1/2W	R833	1-216-105-00	METAL GLAZE	220K 5% 1/10W
R605	1-216-295-91	METAL GLAZE	0 5% 1/10W	R836	1-216-242-91	METAL GLAZE	68K 5% 1/8W
R606	1-216-035-00	METAL GLAZE	270 5% 1/10W	R839	1-216-665-11	METAL CHIP	3.9K 0.50% 1/10W
R607	1-216-210-00	METAL GLAZE	3.3K 5% 1/8W	R840	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R608	1-215-903-11	METAL OXIDE	68K 5% 2W F	R841	1-249-397-11	CARBON	22 5% 1/4W F
R609	1-249-395-11	CARBON	15 5% 1/4W	R842	1-216-454-11	METAL OXIDE	390 5% 2W F
R610	1-247-881-00	CARBON	120K 5% 1/4W	R848	1-215-885-00	METAL OXIDE	68 5% 2W F
R611	1-215-887-00	METAL OXIDE	150 5% 2W F	R849	1-215-884-11	METAL OXIDE	47 5% 2W F
R612	1-260-131-11	CARBON	470K 5% 1/2W	R851	1-247-743-11	CARBON	220 5% 1/2W F
R613	1-216-259-00	METAL GLAZE	360K 5% 1/8W	R852	1-249-389-11	CARBON	4.7 5% 1/4W F
R614	1-216-488-11	METAL OXIDE	18K 5% 3W F	R853	1-249-443-11	CARBON	0.47 5% 1/4W F
R615	1-216-488-11	METAL OXIDE	18K 5% 3W F	R854	1-249-443-11	CARBON	0.47 5% 1/4W F
R618	1-216-449-11	METAL OXIDE	56 5% 2W F	R855	1-202-826-00	SOLID	4.7K 20% 1/2W
R620	1-216-045-00	METAL GLAZE	680 5% 1/10W	R858	1-249-423-11	CARBON	3.3K 5% 1/4W
R621	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W	R864	1-216-686-11	METAL CHIP	30K 0.50% 1/10W
R622	1-216-041-00	METAL GLAZE	470 5% 1/10W	R868	1-249-426-11	CARBON	5.6K 5% 1/4W
R623	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R871	1-214-907-00	METAL	56K 1% 1/2W
R625	1-216-449-11	METAL OXIDE	56 5% 2W F	R872	1-249-393-11	CARBON	10 5% 1/4W F
R626	1-216-635-11	METAL CHIP	220 0.50% 1/10W	R873	1-249-393-11	CARBON	10 5% 1/4W F
R627	1-249-398-11	CARBON	27 5% 1/4W F	R876	1-249-421-11	CARBON	2.2K 5% 1/4W
R629	1-215-464-00	METAL	62K 1% 1/4W	R877	1-215-907-11	METAL OXIDE	22 5% 3W F
R630	1-249-421-11	CARBON	2.2K 5% 1/4W	R889	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R631	1-216-398-11	METAL OXIDE	5.6 5% 3W F	R893	1-215-878-00	METAL OXIDE	33K 5% 1W F
				R894	1-216-264-00	METAL GLAZE	560K 5% 1/8W
				R895	1-216-095-00	METAL GLAZE	82K 5% 1/10W

The components identified by shading and marked Δ are critical for safety.
Replace only with the part number specified.

D

VM

REF.NO.	PART NO.	DESCRIPTION	REMARK
R897	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R898	1-216-262-00	METAL GLAZE	470K 5% 1/8W
R899	1-249-377-11	CARBON	0.47 5% 1/4W F
R1501	1-216-676-11	METAL CHIP	11K 0.50% 1/10W
R1502	1-216-666-11	METAL CHIP	4.3K 0.50% 1/10W
R1503	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1504	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1505	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1506	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R1506	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R1508	1-216-683-11	METAL CHIP	22K 0.50% 1/10W
R1509	1-216-689-11	METAL CHIP	39K 0.50% 1/10W
R1510	1-249-382-11	CARBON	1.2 5% 1/4W F
R1511	1-215-888-00	METAL OXIDE	220 5% 2W F
R1512	1-216-370-11	METAL OXIDE	1.2 5% 2W F
R1514	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R1550	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R1551	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1552	1-216-113-00	METAL GLAZE	470K 5% 1/10W
< VARIABLE RESISTOR >			
RV601	1-241-628-11	RES, ADJ, CARBON 2.2K	
< TRANSFORMER >			
T601	Δ 1-423-738-11	S.R.T (SMT89)	
T801	Δ 1-453-171-11	TRANSFORMER ASSY, FLYBACK (UX-2602A2)	
T803	1-437-090-00	HDT	
T895	1-413-059-00	TRANSFORMER, FERRITE (DFT)	

*A-1644-040-A VM BOARD, COMPLETE			

< CAPACITOR >			
C1701	1-124-119-00	ELECT	330MF 20% 16V
C1702	1-101-880-00	CERAMIC	47PF 5% 50V
C1703	1-102-115-00	CERAMIC	560PF 10% 50V
C1704	1-161-830-00	CERAMIC	0.0047MF 500V
C1705	1-124-120-11	ELECT	220MF 20% 16V
C1706	1-123-935-00	ELECT	33MF 20% 160V
C1707	1-124-907-11	ELECT	10MF 20% 50V
C1708	1-101-006-00	CERAMIC	0.047MF 50V
C1709	1-108-704-11	MYLAR	0.1MF 10% 200V
C1710	1-136-207-11	FILM	0.047MF 10% 250V
C1711	1-162-318-11	CERAMIC	0.001MF 10% 500V
C1712	1-124-799-11	ELECT	2.2MF 20% 160V
C1713	1-162-318-11	CERAMIC	0.001MF 10% 500V
C1714	1-136-207-11	FILM	0.047MF 10% 250V
C1716	1-124-907-11	ELECT	10MF 20% 50V
C1718	1-124-120-11	ELECT	220MF 20% 16V
C1719	1-124-927-11	ELECT	4.7MF 20% 50V

< CONNECTOR >

CN1819 *1-568-882-51 PIN, CONNECTOR 7P

< DIODE >

D1701 8-719-901-33 DIODE 1SS133
D1702 8-719-901-33 DIODE 1SS133
D1703 8-719-901-33 DIODE 1SS133
D1704 8-719-982-37 DIODE MTZJ-39C

REF.NO.	PART NO.	DESCRIPTION	REMARK
D1705	8-719-982-37	DIODE MTZJ-39C	
D1706	8-719-901-33	DIODE 1SS133	
D1707	8-719-901-33	DIODE 1SS133	
< COIL >			
L1702	1-408-418-00	INDUCTOR	56UH
< TRANSISTOR >			
Q1701	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1702	8-729-173-38	TRANSISTOR 2SA733-K	
Q1703	8-729-017-05	TRANSISTOR 2SA1837	
*4-368-683-21		SPRING, TRANSISTOR (Q1703)	
Q1704	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1705	8-729-017-06	TRANSISTOR 2SC4793	
*4-368-683-21		SPRING, TRANSISTOR (Q1705)	
Q1706	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1707	8-729-140-96	TRANSISTOR 2SD774-34	
Q1708	8-729-901-59	TRANSISTOR BF199	
Q1709	8-729-255-12	TRANSISTOR 2SC2551-0	
< RESISTOR >			
R1701	1-247-807-31	CARBON	100 5% 1/4W
R1702	1-249-420-11	CARBON	1.8K 5% 1/4W
R1703	1-247-807-31	CARBON	100 5% 1/4W
R1704	1-249-420-11	CARBON	1.8K 5% 1/4W
R1705	1-247-736-11	CARBON	56 5% 1/4W F
R1706	1-249-414-11	CARBON	560 5% 1/4W F
R1707	1-249-412-11	CARBON	390 5% 1/4W
R1709	1-249-416-11	CARBON	820 5% 1/4W
R1710	1-249-385-11	CARBON	2.2 5% 1/4W F
R1711	1-249-432-11	CARBON	18K 5% 1/4W
R1712	1-249-435-11	CARBON	33K 5% 1/4W
R1713	1-249-438-11	CARBON	56K 5% 1/4W
R1714	1-249-429-11	CARBON	10K 5% 1/4W
R1715	1-216-476-11	METAL OXIDE	180 5% 3W F
R1716	1-249-417-11	CARBON	1K 5% 1/4W F
R1717	1-249-432-11	CARBON	18K 5% 1/4W
R1718	1-249-410-11	CARBON	270 5% 1/4W
R1719	1-249-419-11	CARBON	1.5K 5% 1/4W
R1720	1-249-441-11	CARBON	100K 5% 1/4W
R1721	1-249-414-11	CARBON	560 5% 1/4W
R1722	1-249-385-11	CARBON	2.2 5% 1/4W F
R1723	1-249-429-11	CARBON	10K 5% 1/4W
R1724	1-249-436-11	CARBON	39K 5% 1/4W
R1725	1-249-417-11	CARBON	1K 5% 1/4W
R1726	1-249-411-11	CARBON	330 5% 1/4W
R1727	1-249-402-11	CARBON	56 5% 1/4W F
R1729	1-216-451-11	METAL OXIDE	120 5% 2W F
R1731	1-249-420-11	CARBON	1.8K 5% 1/4W
R1732	1-249-426-11	CARBON	5.6K 5% 1/4W
R1734	1-249-419-11	CARBON	1.5K 5% 1/4W

H1 **H2** **K1** **J**

MC-Service

The components identified by shading and marked **A** are critical for safety.
Replace only with the part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
	*1-648-314-11	H1 BOARD *****	
		< SOCKET >	
	1-562-837-11	JACK	
	1-568-678-11	TERMINAL BLOCK, S 3P	
		< CAPACITOR >	
C083	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V
C087	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V
		< CONNECTOR >	
CN1008	*1-564-513-11	PLUG, CONNECTOR 10P	
CN1018	*1-568-878-51	PIN, CONNECTOR 3P	
		< COIL >	
L081	1-408-409-00	INDUCTOR 10UH	
L082	1-408-409-00	INDUCTOR 10UH	
		< RESISTOR >	
JR021	1-216-295-91	METAL GLAZE 0 5% 1/10W	
R081	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R082	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R083	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R084	1-216-202-00	METAL GLAZE 1.5K 5% 1/8W	
R085	1-216-202-00	METAL GLAZE 1.5K 5% 1/8W	
		< SWITCH >	
S081	1-571-532-21	SWITCH, TACTIL	
S082	1-571-532-21	SWITCH, TACTIL	
S083	1-571-532-21	SWITCH, TACTIL	

	*1-652-942-11	H2 BOARD *****	
	*4-201-076-01	HOLDER, LED	
	*4-374-987-01	GUIDE, LIGHT	
	4-381-686-01	BRACKET (B), LIGHT GUIDE	
		< CONNECTOR >	
CN1132	*1-568-882-51	PIN, CONNECTOR 7P	
		< DIODE >	
D092	8-719-948-31	DIODE LD-201VR	
D093	8-719-948-31	DIODE LD-201VR	
D094	8-719-948-31	DIODE LD-201VR	
		< IC >	
IC091	8-741-101-75	IC SBX1610-11	
		< RESISTOR >	
JR160	1-216-296-91	METAL GLAZE 0 5% 1/8W	
JR161	1-216-296-91	METAL GLAZE 0 5% 1/8W	
R091	1-216-190-00	METAL GLAZE 470 5% 1/8W	

REF.NO.	PART NO.	DESCRIPTION	REMARK
	*A-1649-009-A	K1 BOARD, COMPLETE *****	
	4-201-023-01	SPACER, INSULATING	
	4-202-373-01	SPRING, IC	
		< CAPACITOR >	
C261	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
C262	1-124-925-11	ELECT 2.2MF	20% 50V
C263	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C264	1-124-916-11	ELECT 22MF	20% 50V
C265	1-101-006-00	CERAMIC 0.047MF	50V
C266	1-130-772-00	FILM 0.22MF	5% 63V
C267	1-124-618-11	ELECT 2200MF	20% 35V
C268	1-124-618-11	ELECT 2200MF	20% 35V
C271	1-130-772-00	FILM 0.22MF	5% 63V
C272	1-124-925-11	ELECT 2.2MF	20% 50V
C273	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C275	1-124-916-11	ELECT 22MF	20% 50V
		< CONNECTOR >	
CN1312	1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
CN1346	*1-564-506-11	PLUG, CONNECTOR 3P	
CN1349	*1-564-507-11	PLUG, CONNECTOR 4P	
		< DIODE >	
D261	8-719-901-33	DIODE 1SS133	
D262	8-719-901-33	DIODE 1SS133	
D263	8-719-901-33	DIODE 1SS133	
D264	8-719-901-33	DIODE 1SS133	
D265	8-719-901-33	DIODE 1SS133	
D266	8-719-901-33	DIODE 1SS133	
		< IC >	
IC270	8-759-072-99	IC TDA2052	
IC280	8-759-072-99	IC TDA2052	
		< RESISTOR >	
R261	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R262	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R263	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R264	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R265	1-216-045-00	METAL GLAZE 680 5% 1/10W	
R266	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R267	A 1-217-477-80	FUSIBLE 4.7 5% 1W	F
R268	A 1-217-477-80	FUSIBLE 4.7 5% 1W	F
R269	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R270	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R271	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R272	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R273	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R274	1-216-045-00	METAL GLAZE 680 5% 1/10W	

	*A-1651-064-A	J BOARD, COMPLETE *****	
		< CAPACITOR >	
C281	1-124-119-00	ELECT 330MF	20% 16V
C295	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V



REF.NO.	PART NO.	DESCRIPTION	REMARK
C296	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C906	1-101-004-00	CERAMIC 0.01MF	50V
C910	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C911	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C912	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C913	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C914	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C915	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C916	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C917	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C922	1-124-477-11	ELECT 47MF	20% 16V
C923	1-164-346-11	CERAMIC CHIP 1MF	16V
C924	1-124-477-11	ELECT 47MF	20% 16V
C925	1-124-477-11	ELECT 47MF	20% 16V
C926	1-164-346-11	CERAMIC CHIP 1MF	16V
C927	1-124-477-11	ELECT 47MF	20% 16V
C928	1-124-477-11	ELECT 47MF	20% 16V
C929	1-124-477-11	ELECT 47MF	20% 16V
C930	1-124-477-11	ELECT 47MF	20% 16V
C931	1-164-346-11	CERAMIC CHIP 1MF	16V
C932	1-164-346-11	CERAMIC CHIP 1MF	16V

< CONNECTOR >

CN1209	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P
CN1210	*1-564-522-11	PLUG, CONNECTOR 7P
CN1233	*1-564-518-11	PLUG, CONNECTOR 3P
CN1240	*1-564-519-11	PLUG, CONNECTOR 4P

< DIODE >

D903	8-719-921-69	DIODE MTZJ-9.1
D904	8-719-921-69	DIODE MTZJ-9.1
D907	8-719-921-69	DIODE MTZJ-9.1
D908	8-719-921-69	DIODE MTZJ-9.1
D909	8-719-921-69	DIODE MTZJ-9.1
D910	8-719-921-69	DIODE MTZJ-9.1
D911	8-719-921-69	DIODE MTZJ-9.1
D912	8-719-921-69	DIODE MTZJ-9.1
D913	8-719-921-69	DIODE MTZJ-9.1
D914	8-719-921-69	DIODE MTZJ-9.1
D915	8-719-921-69	DIODE MTZJ-9.1
D916	8-719-921-69	DIODE MTZJ-9.1
D917	8-719-921-69	DIODE MTZJ-9.1
D924	8-719-921-69	DIODE MTZJ-9.1
D925	8-719-921-69	DIODE MTZJ-9.1
D926	8-719-921-69	DIODE MTZJ-9.1
D927	8-719-921-69	DIODE MTZJ-9.1
D928	8-719-921-69	DIODE MTZJ-9.1
D999	8-719-110-39	DIODE RD15ESB1

< SOCKET >

J291	1-537-505-11	TERMINAL BOARD (2P)
J903	1-561-534-41	SOCKET, PIN 21P
J903	1-695-550-11	SOCKET 21P
J905	1-695-293-11	SOCKET 21P

< TRANSISTOR >

Q281	8-729-920-74	TRANSISTOR 2SC2412K-QR
Q282	8-729-920-74	TRANSISTOR 2SC2412K-QR

REF.NO.	PART NO.	DESCRIPTION	REMARK
< RESISTOR >			
JR901	1-216-295-91	METAL GLAZE	0 5% 1/10W
JR906	1-216-295-91	METAL GLAZE	0 5% 1/10W
JR915	1-216-295-91	METAL GLAZE	0 5% 1/10W
JR917	1-216-296-91	METAL GLAZE	0 5% 1/8W
JR918	1-216-295-91	METAL GLAZE	0 5% 1/10W
JR919	1-216-296-91	METAL GLAZE	0 5% 1/8W
JR920	1-216-295-91	METAL GLAZE	0 5% 1/10W
JR921	1-216-295-91	METAL GLAZE	0 5% 1/10W
JR924	1-216-296-91	METAL GLAZE	0 5% 1/8W
JR926	1-216-296-91	METAL GLAZE	0 5% 1/8W
JR927	1-216-296-91	METAL GLAZE	0 5% 1/8W
JR928	1-216-296-91	METAL GLAZE	0 5% 1/8W
JR935	1-216-296-91	METAL GLAZE	0 5% 1/8W
JR940	1-216-296-91	METAL GLAZE	0 5% 1/8W
JR942	1-216-296-91	METAL GLAZE	0 5% 1/8W
JR952	1-216-296-91	METAL GLAZE	0 5% 1/8W
JR954	1-216-295-91	METAL GLAZE	0 5% 1/10W
JR955	1-216-296-91	METAL GLAZE	0 5% 1/8W
JR956	1-216-295-91	METAL GLAZE	0 5% 1/10W
JR957	1-216-295-91	METAL GLAZE	0 5% 1/10W
R283	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R284	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R287	1-216-216-00	METAL GLAZE	5.6K 5% 1/8W
R288	1-216-216-00	METAL GLAZE	5.6K 5% 1/8W
R289	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R290	1-216-216-00	METAL GLAZE	5.6K 5% 1/8W
R291	1-249-413-11	CARBON	470 5% 1/4W
R292	1-249-413-11	CARBON	470 5% 1/4W
R911	1-216-022-00	METAL GLAZE	75 5% 1/10W
R921	1-216-022-00	METAL GLAZE	75 5% 1/10W
R922	1-216-222-00	METAL GLAZE	10K 5% 1/8W
R923	1-216-039-00	METAL GLAZE	390 5% 1/10W
R924	1-216-039-00	METAL GLAZE	390 5% 1/10W
R925	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R926	1-216-039-00	METAL GLAZE	390 5% 1/10W
R927	1-216-039-00	METAL GLAZE	390 5% 1/10W
R928	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R929	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R930	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R931	1-216-212-00	METAL GLAZE	3.9K 5% 1/8W
R932	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R933	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R934	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R935	1-216-022-00	METAL GLAZE	75 5% 1/10W
R936	1-216-022-00	METAL GLAZE	75 5% 1/10W
R937	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R938	1-216-039-00	METAL GLAZE	390 5% 1/10W
R939	1-216-188-00	METAL GLAZE	390 5% 1/8W
R940	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R941	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R942	1-216-188-00	METAL GLAZE	390 5% 1/8W
R943	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R944	1-216-188-00	METAL GLAZE	390 5% 1/8W
R945	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R959	1-216-674-11	METAL CHIP	9.1K 0.50% 1/10W
R960	1-216-674-11	METAL CHIP	9.1K 0.50% 1/10W
R968	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R969	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R970	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W



MC-Service

The components identified by shading and marked Δ are critical for safety.
Replace only with the part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
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R977	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W	
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MISCELLANEOUS

Δ 1-452-509-41	NECK ASSY, PICTURE TUBE (NA-308)
Δ 1-406-807-11	COIL, DEMAGNETIZATION
Δ 8-451-422-11	DEFLECTION YOLK (Y29GZA)
1-452-032-00	MAGNET, DISK; 10MM
1-452-094-00	MAGNET, ROTATABLE DISK; 15MM

Δ 1-590-762-11	CORD, POWER (WITH PLUG) (A2942U)
Δ 1-690-296-11	CORD, POWER (WITH NOISE FILTER) (KV-A2941A/A2941D)
Δ 1-590-460-11	CORD, POWER (WITH CONNECTOR) (KV-A2941B/A2943E/A2941K)
1-544-475-21	SPEAKER

V901	Δ 8-733-853-05	PICTURE TUBE (M68LCT60X)	
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ACCESSORIES AND PACKING MATERIALS

4-202-736-71	MANUAL, INSTRUCTION (KV-A2943E)
4-202-736-41	MANUAL, INSTRUCTION (KV-A2941A)
4-202-736-51	MANUAL, INSTRUCTION (KV-A2941B)
4-202-736-11	MANUAL, INSTRUCTION (KV-A2941D)
4-202-736-91	MANUAL, INSTRUCTION (KV-A2941K)
4-202-736-61	MANUAL, INSTRUCTION (KV-A2942U)
4-039-906-01	BAG, PROTECTION
4-202-502-01	CUSHION (LOWER) (ASSY)
4-202-503-01	CUSHION (UPPER) (ASSY)
4-202-504-01	INDIVIDUAL CARTON

REMOTE COMMANDER

1-467-272-11	REMOTE COMMANDER RM-831
9-903-466-01	POCKET COVER (FOR RM-831)

REF.NO.	PART NO.	DESCRIPTION	REMARK
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